

Cornell University

ANNOUNCEMENTS

The Medical College



1965-66

CORNELL UNIVERSITY ANNOUNCEMENTS

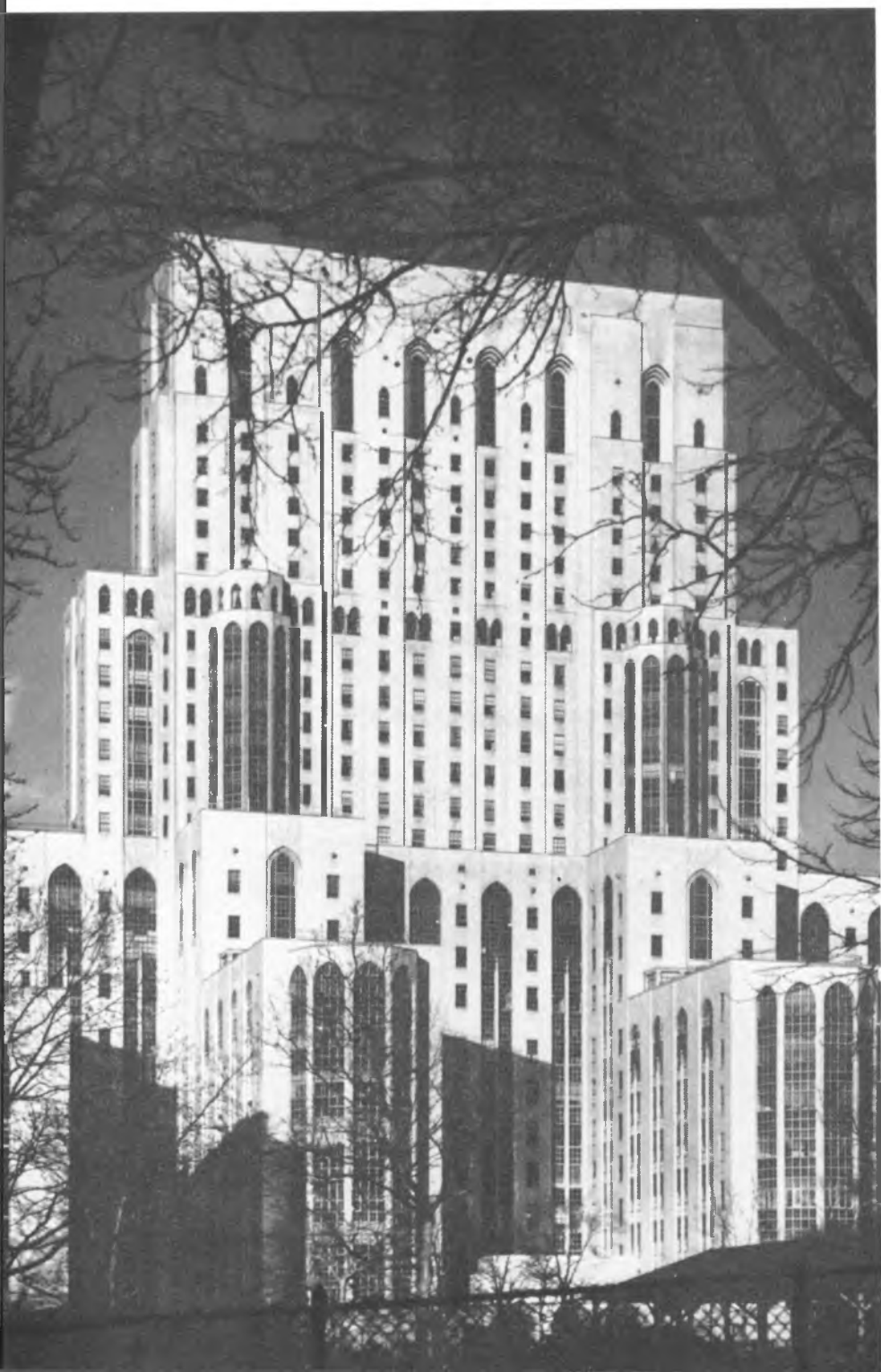
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Cornell University

The Medical College

1965-66

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26	27	28	29	30	31								26	27	28	29	30								25	26	27	28	29	30	31							

Calendar

Registration; instruction begins for fourth year, first division

Independence Day, holiday

Second division begins for fourth year

Labor Day, holiday

Examinations for conditioned students

Registration for first, second, and third years

Opening Exercises, 3:30 p.m.

Instruction begins for first, second, and third years

Third division begins for fourth year

Thanksgiving Day, holiday

Fourth division begins for fourth year

End of fall term for first and second years, 1 p.m.

Beginning of winter term for third year

Examinations for first and second years

Beginning of winter term for first and second years

Instruction ends, 1 p.m., Christmas recess begins

Christmas holidays

New Year's holidays

Christmas recess ends, instruction begins

Fifth division begins for fourth year

Winter term ends for third year, 1 p.m.

Spring recess for third year

Winter term ends for first and second years, 1 p.m.

Spring term begins for third year

Examinations for second year

Examinations for first year

Spring recess for second year

Spring term begins for first and second years

Spring recess for fourth year

Sixth division begins for fourth year

Spring recess for first year

Instruction ends for third year

Instruction ends for fourth year

Examinations for third year

Memorial Day, holiday

Examinations for fourth year

Instruction ends for second year

Examinations for second year

Commencement, 3 p.m.

Instruction ends for first year

Examinations for first year

1965

June 21

July 5

Aug. 12

Sept. 6

Sept. 9, 10

Sept. 10 or 13

Sept. 13

Sept. 14

Oct. 4

Nov. 25

Nov. 26

Nov. 27

Nov. 29

Nov. 29-Dec. 4

Dec. 6

Dec. 18

Dec. 24, 25

1966

Dec. 31, Jan. 1

Jan. 3

Jan. 31

Feb. 26

Feb. 27-Mar. 6

Mar. 5

Mar. 7

Mar. 7-12

Mar. 7-19

Mar. 13-20

Mar. 21

Mar. 26-Apr. 3

Apr. 4

Apr. 10-17

May 21

May 26

May 21-28

May 30

May 28-June 2

June 4

June 6, 7

June 8

June 10

June 13, 14, 15



Cornell University

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Center was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

Joseph C. Hinsey, Director

The New York Hospital-Cornell Medical Center

Frederick K. Trask, Jr.

Arthur H. Dean

James A. Perkins

Stanton Griffis

Hamilton Hadley

Francis Kernan

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$."

If for the Center, the language may be: "I give and bequeath to the New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

OFFICERS OF ADMINISTRATION

James A. Perkins, President of the University
John E. Deitrick, Dean of the Medical College
J. Robert Buchanan, Associate Dean
Lawrence W. Hanlon, Associate Dean
Edward K. Taylor, Assistant Treasurer and Business Manager
Emiko Akiyama, Acting Librarian
Ann Breen, Director of Public Information
Bruce H. Ewald, Director of Laboratory Animal Medicine

EXECUTIVE FACULTY

James A. Perkins	William T. Lhamon
A. Whitley Branwood	Wallace W. McCrory
John E. Deitrick	Walsh McDermott
Vincent du Vigneaud	Robert F. Pitts
John A. Evans	Walter F. Riker, Jr.
Fritz F. Fuchs	William F. Scherer
Frank Glenn	Roy C. Swan
Joseph C. Hinsey	David D. Thompson

Lawrence W. Hanlon, Secretary

STANDING COMMITTEES

The Dean is ex officio a member of all committees.

Admissions

Lawrence W. Hanlon, Chairman
J. Robert Buchanan
Richard C. Karl
Henry Mannix
James R. McCarroll
Thomas H. Meikle, Jr.
Alphonse E. Timpanelli

Animal Care

Bjorn Thorbjarnarson, Chairman
E. Lovell Becker
Peter M. Burkholder
William D. Cash
Bruce H. Ewald
Floyd M. Feldman
Julius Golubow
Sidney E. Grossberg
Wilbur D. Hagamen
Mordecai Halpern
Graham H. Jeffries
Richard C. Karl
Richard H. Kessler
Harold A. Koehler
Robert Landesman
Thomas J. Luparello
Jay Roberts
Frank G. Standaert

Curriculum

John Y. Sugg, Chairman
 Barbara Ashe
 Dana C. Brooks
 Eric T. Carlson
 William D. Cash
 Harold Hempling
 Donald G. Johnson
 Edwin D. Kilbourne
 Walter Modell
 Zuheir Mujahed
 George G. Reader
 Goetz W. Richter
 Lawrence W. Hanlon, ex officio
 John E. Deitrick, ex officio

Internship Advisory

George W. Frimpter, Chairman
 Charles H. Bauer
 Donald G. Johnson
 Edward Y. Liang
 S. W. Moore
 Marvin H. Sleisenger

Library

Thomas P. Almy
 Emiko Akiyama, Acting Chairman
 Goran Bauer
 David V. Becker
 George B. Brown
 Eric T. Carlson
 Roger L. Grief *
 Lawrence W. Hanlon
 Veronica Lyons
 John MacLeod
 Victor F. Marshall
 Julian R. Rachele

* On leave of absence.

Prizes in Research

Fred Plum, Chairman
 Dana C. Brooks
 Thomas Killip III
 George E. Murphy
 Edward I. Goldsmith

Promotion and Graduation

John E. Deitrick, Chairman
 Heads of departments, or their representatives, responsible for the more important courses of each year.

Research Society

Edwin D. Kilbourne, Chairman
 Goran C. H. Bauer
 William D. Cash
 Wilbur D. Hagamen
 Edward W. Hook, Jr.
 Daniel S. Lukas
 Frank G. Standaert

Scholarships

Walter F. Riker, Chairman
 J. Robert Buchanan
 William D. Cash
 Richard N. Kohl
 John M. McLean
 Fred Plum
 Julian R. Rachele

FACULTY *

JAMES A. PERKINS, A.B., Ph.D., *President of the University.*

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
ILLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
HAROLD W. K. DARGEON, M.D. [1947; 1963]	<i>Clinical Professor of Pediatrics</i>
EDWARD H. DENNEN, M.D. [1933; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
R. GORDON DOUGLAS, M.D. [1932; 1965]	<i>Professor of Obstetrics and Gynecology</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
HARRY GOLD, M.D. [1922; 1965]	<i>Clinical Professor of Pharmacology</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
GEORGE M. LEWIS, M.D. [1932; 1964]	<i>Clinical Professor of Medicine (Dermatology)</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
ADE T. MILHORAT, M.D. [1933; 1964]	<i>Clinical Professor of Medicine</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JOSEPH N. NATHANSON, M.D.C.M. [1926; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
CARL H. SMITH, M.D. [1928; 1964]	<i>Clinical Professor of Pediatrics</i>
FRANK R. SMITH, M.D. [1932; 1965]	<i>Clinical Professor of Obstetrics and Gynecology</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery (Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

THOMAS P. ALMY, *Professor of Medicine.* Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. A.B. 1935, M.D. 1939, Cornell. [1940; 1957]

JOSEPH F. ARTUSIO, Jr., *Professor of Anesthesiology in Surgery; Professor of*

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- Anesthesiology in Obstetrics and Gynecology*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- GORAN C. H. BAUFER, *Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1948, Karolinska Institute, Sweden. [1963]
- LEONA BAUMGARTNER, *Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958]
- WILLIAM H. BRADLEY, *Visiting Professor of Public Health*. B.A. 1921, B.M., B.Ch. 1924, D.M. 1931, Oxford. [1965]
- ALEXANDER BRUNSCHWIG, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947]
- JOSEPH H. BURCHENAL, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960]
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955]
- FRANK E. CORMIA, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.S. 1926, M.D. 1930, Vermont; M.S. 1934, Pennsylvania. [1946; 1965]
- JOHN E. DETTRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957]
- HENRY S. DUNNING, *Clinical Professor of Neurology in Medicine*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- VINCENT DU VIGNEAUD, *Professor of Biochemistry (Chairman)*. B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938]
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- AARON FEDER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1938, Maryland. [1941; 1965]
- CLAUDE E. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953]
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957]
- FRITZ F. FUCHS, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- GERHARD GIEBISCH, *Professor of Physiology*. M.D. 1951, University of Vienna. [1953; 1965]
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. M.D. 1927, Washington University. [1932; 1947]
- ROGER L. GREIF, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- JOHN R. HELLER, *Clinical Professor of Public Health*. B.S. 1925, Clemson; M.D. 1929, Emory. [1962]
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Director, New York Hospital-Cornell Medical Center. B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956]

- ELLIOT HOCHSTEIN, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- EDWARD W. HOOK, JR., *Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Wofford College; M.D. 1949, Emory University. [1959; 1964]
- FRANK L. HORSEFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Science. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- DONALD G. JOHNSON, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- B. H. KEAN, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- JOHN G. KIDD, *Professor of Pathology*. Pathologist-in-Chief, New York Hospital. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. A.B. 1942, M.D. 1944, Cornell. [1955; 1961]
- KIYOSHI KOWNO, *Visiting Professor of Public Health*. M.D. 1948, Ph.D. 1954, Tohoku University (Japan). [1965]
- ELMER E. KRAMER, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957]
- ALLYN B. LEY, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- E. HUGH LUCKEY, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1957]
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- WALLACE W. McCORRY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology). New York Hospital. A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962]
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943]
- ROBERT C. MELIORS, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon

- in Charge of Otolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- JAMES J. NICKSON, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. B.S. 1936, University of Washington; M.D. 1940, Johns Hopkins. [1949; 1951]
- STEN-ERIK OLSSON, *Visiting Professor of Comparative Orthopedics in Surgery*. D.V.M. 1947, D.Vet.Sci. 1951, Royal Veterinary College, Stockholm; M.D. 1962, Karolinska Institute, Stockholm. [1964]
- ROBERT L. PATTERSON, JR., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- ROBERT F. PITTS, *Professor of Physiology (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- FRED PLUM, *Anne Parrish Titzell Professor of Neurology in Medicine*. Neurologist-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- JULIAN R. RACHELE, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- HENRY T. RANDALL, *Professor of Surgery*. Clinical Director and Chairman, Department of Surgery, Memorial Hospital. A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951]
- RULON W. RAWSON, *Professor of Medicine*. Attending Physician and Chairman, Department of Medicine, Memorial Hospital; Visiting Physician, Bellevue Hospital. M.B. 1937, M.D. 1938, Northwestern. [1948; 1951]
- BRONSON S. RAY, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital; Visiting Surgeon in Charge of Neurosurgery, Bellevue Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- GEORGE G. READER, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- WILLIAM F. SCHERER, *Professor of Microbiology (Chairman)*. M.D. 1947, University of Rochester. [1962]
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958]
- MARVIN H. SLEISINGER, *Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. M.D. 1947, Harvard. [1951; 1965]
- MARVIN STEIN, *Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. B.S. 1945, M.D. 1949, Washington University. [1963]
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- ROY C. SWAN, *Professor of Anatomy (Chairman)*. A.B. 1941, M.D. 1947, Cornell. [1948; 1959]
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- DAVID D. THOMPSON, *Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
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- JEREMIAH A. BARONDESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- DAVID V. BECKER, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
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- SAMUEL R. BERENBERG, *Clinical Associate Professor of Pediatrics; Clinical Assistant Professor of Public Health*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- ROY W. BONSNES, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- ARTHUR WHITLEY BRANWOOD, *Associate Professor of Pathology*. Attending Pathologist, New York Hospital. M.B. Ch.B. 1942, M.D. 1948, University of Edinburgh. [1963]
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- ERIC T. CARLSON, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1962]
- HENRY A. CARR, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
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- EUGENE J. COHEN, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- WILLIAM COOPER, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1959]
- WILLIAM A. COOPER, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1928, Stanford University; M.D. 1932, Cornell. [1934; 1946]
- FARRINGTON DANIELS, *Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962]
- HELEN E. DANIELLS, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- MARGARET DANN, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1923, Oberlin; M.S. 1925, Illinois; Ph.D. 1932, Cornell; M.D. 1937, Yale. [1938; 1956]
- E. WILLIAM DAVIS, JR., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- MICHAEL R. DEDDISH, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- PAUL F. DE GARA, *Clinical Associate Professor of Pediatrics (Allergy); Clinical Assistant Professor of Medicine (Allergy)*. Associate Attending Pediatrician; Assistant Attending Physician, New York Hospital. M.D. 1926, Heidelberg University; M.D. 1927, Padua University. [1941; 1963]
- THOMAS F. DILLON, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown University. [1952; 1962]
- PETER DINEEN, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- JOHN W. DOUGHERTY, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- JOHN W. DRAPER, *Clinical Associate Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital; Visiting Surgeon in Charge of Urological Service, Bellevue Hospital. A.B. 1927, Dartmouth; M.D. 1931, Cornell. [1932; 1949]
- HOWARD S. DUNBAR, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Associate Visiting Surgeon, Bellevue Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- EDWARD A. DUNLAP III, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1945; 1960]
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- BORJE E. EJRP, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute (Sweden). [1961; 1964]
- MARY ALLEN ENGLE, *Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1959]
- RALPH L. ENGLE, JR., *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1957]
- NATHAN EPSTEIN, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- ALBERT J. ERDMANN, JR., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. A.B. 1933, Yale; M.D. 1937, Harvard. [1940; 1965]
- MARION E. ERLANDSON, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1946, Oberlin College; M.D. 1950, Western Reserve. [1955; 1961]
- JOSEPH H. FARROW, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- FREDERIC F. FLACH, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peter's; M.D. 1951, Cornell. [1954; 1962]
- WILLIAM T. FOLEY, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- JOSEPH G. FORTNER, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- JOHN E. FRANKLIN, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- EDGAR L. FRAZELL, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- ROBERT H. FREIBERGER, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- CONSTANCE FRIESS, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- GEORGE W. FRIMPTER, *Associate Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. B.A. 1948, Williams; M.D. 1952, Cornell. [1961; 1965]
- WILLIAM GELLER, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- RANDOLPH GEPFERT, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1929, Georgia. [1941; 1956]
- JAMES I. GERMAN, III, *Associate Professor of Anatomy; Associate Professor of Medicine; Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- HELENA GILDER, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- WILLIAM P. GIVEN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- OSCAR GLASSMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Attend-

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- HENRY P. GOLDBERG, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- DAN M. GORDON, *Clinical Associate Professor of Surgery (Ophthalmology)*. Associate Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1948]
- ARTHUR V. GREELEY, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1925, Yale; M.D. 1929, Johns Hopkins. [1932; 1957]
- SIDNEY M. GREENBERG, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- MORDECAI HALPERN, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1940, Michigan; M.D. 1943, Cornell. [1959; 1965]
- LAWRENCE W. HANLON, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- GRAHAM G. HAWKS, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- HAROLD G. HEMPLING, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- ULRICH K. HENSCKE, *Clinical Associate Professor of Radiology*. Associate Attending Radiation Therapist, Memorial Hospital. Ph.D. 1937, M.D. 1939, University of Berlin. [1956]
- LAWRENCE E. HINKLE, JR., *Associate Professor of Medicine; Clinical Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- GEORGE R. HOLSWADE, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- MELVIN HORWITZ, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
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- EDMUND N. JOYNER III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
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- RICHARD H. KESSLER, *Clinical Associate Professor of Physiology*. B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1965]
- THOMAS KILLIP III, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1964]
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- RICHARD N. KOHL, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
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- ROBERT LANDESMAN, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
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- JOHN H. MCGOVERN, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- GORDON P. McNEER, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1931, Pennsylvania. [1950; 1960]
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- BERNARD ROGOFF, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery; Assistant Visiting Physician, Bellevue Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1961]
- DAVID M. ROSEMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1947, M.D. 1951, Johns Hopkins. [1952; 1959]
- ISADORE ROSENFELD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- EMMANUEL RUDD, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- PAUL RUEGSEGGGER, *Clinical Assistant Professor of Medicine*. M.D. 1946, University of Zurich. [1961; 1962]
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1952; 1958]
- SAMUEL F. RYAN, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O. 1954, Dublin University. [1960; 1964]
- PAUL D. SAVILLE, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B., B.S., 1949, St. Georges Hospital Medical College, London. [1959; 1963]
- LAWRENCE SCHERR, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1963]
- RAUL C. SCHIAVI, *Assistant Professor of Psychiatry*. M.D. 1953, University of Buenos Aires. [1963]
- WILLIAM W. SCHLAEPFER, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1954, Princeton; M.D. 1958, Yale. [1964; 1965]
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946]
- MARIE-LOUISE SCHOELLY, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- EDWARD T. SCHUBERT, *Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1960; 1965]
- JEROME L. SCHULMAN, *Assistant Professor of Public Health*. A.B. 1948, Brown; M.D. 1952, New York University. [1957; 1963]
- LEONARD SCHUYLER, *Clinical Assistant Professor of Medicine*. Assistant Attending

- Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- ERNEST SCHWARTZ, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1945, A.M., 1950, M.D. 1951, Columbia. [1958; 1963]
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. A.B. 1944, M.D. 1949, New York University. [1960]
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. A.B. 1932, Barnard; M.D. 1937, Columbia. [1954]
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962]
- DONALD M. SHAFFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1958]
- VERNON H. SHARP, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1953, M.D. 1957, Vanderbilt. [1963; 1965]
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960]
- EDWARD M. SHEPARD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, Williams; M.D. 1940, Cornell. [1949; 1965]
- PAUL SHERLOCK, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962]
- MADOKA SHIBUYA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1960]
- MAURICE SHILS, *Assistant Professor of Medicine*. B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962]
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1962]
- GERALD M. SILVERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960]
- E. FLETCHER SMITH, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1924, M.D. 1928, Texas. [1943; 1963]
- JAMES W. SMITH, *Clinical Assistant Professor of Surgery (Plastic Surgeon)*. Assistant Attending Plastic Surgeon, New York Hospital; Assistant Visiting Surgeon, Bellevue Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- RUTH E. SNYDER, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, University of Pennsylvania. [1961]

- LESLIE H. SOBIN, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.S. 1955, Union College; M.D. 1959, State University of New York. [1960; 1965]
- CYRIL SOLOMON, *Clinical Assistant Professor of Pathology in Medicine*. B.S. 1932, M.D. 1936, Maryland. [1965]
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962]
- AARON D. SPIELMAN, *Clinical Assistant Professor of Medicine (Allergy)*. Assistant Attending Physician, New York Hospital. A.B. 1922, Johns Hopkins; M.D. 1926, Columbia. [1935; 1963]
- WILLARD H. SQUIRES, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. A.B. 1922, University of Utah; M.D. 1924, Bellevue Hospital Medical College. [1961]
- EDWARD STANTON, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.S. 1926, Maine; M.D. 1935, Cornell. [1953; 1961]
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955]
- HARRY L. STEIN, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1953, New York University; M.D. 1957, State University of New York. [1962; 1965]
- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960]
- KURT H. STENZEL, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1954, New York University; M.D. 1958, Cornell. [1959; 1965]
- GERTRUDE S. STERN, *Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1945, Brooklyn College; M.D. 1949, Long Island College of Medicine. [1953; 1958]
- BENJAMIN D. STINSON, *Assistant Professor of Anatomy*. B.S. 1950, M.S. 1953, Oklahoma; Ph.D. 1958, Columbia. [1960; 1964]
- RICHARD W. STONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, M.D. 1945, Wisconsin. [1958]
- LEONARD R. STRAUB, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962]
- WILLIAM D. STUBENBORD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1933; 1953]
- JOEL STUTMAN, *Assistant Professor of Physical Chemistry in Surgery (Orthopedics)*. B.Sc. 1956, Philadelphia College of Pharmacy and Science; Ph.D. 1963, Maryland. [1964]
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- DIETER H. SUSSDORF, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962]
- PETER S. TOLINS, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. RANDALL TOLLEFSEN, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1961]
- FRANK J. VEITH, *Assistant Professor of Surgery*. A.B. 1952, M.D. 1955, Cornell. [1964]

- LOUIS VORHAUS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- HAROLD R. WAINERDI, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. A.B. 1943, Long Island University; M.D. 1947, Boston University. [1952; 1963]
- LILA A. WALLIS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960]
- ROBIN C. WATSON, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- HENRIETTE L. WAYNE, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- CLINTON G. WEIMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- AARON O. WELLS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union University; M.D. 1946, Howard. [1951; 1963]
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958]
- ELLIOT WESER, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. A.B. 1953, M.D. 1957, Columbia. [1960; 1964]
- LOUIS E. WEYMULLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949]
- WILLIAM WHEAT, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946, M.D. 1950, Louisiana State University. [1964]
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944]
- ROBERT E. WIECHE, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist. A.B. 1948, Miami University (Ohio); M.D. 1952, Cornell. [1959; 1965]
- PETER G. WILSON, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- ERIC E. WINDHAGER, *Assistant Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1963]
- MYRON WINICK, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, State University of New York, Brooklyn. [1958; 1964]
- A. LEE WINSTON, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. B.A. 1949, Syracuse; M.D. 1952, State University of New York, Syracuse. [1957; 1963]
- ALEXANDER WILLIAM YOUNG, Jr., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, M.D. 1946, Maryland. [1956; 1964]
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]

CORNELL MEDICAL COLLEGE

HISTORY

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and in 1898 the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the college for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists and professors as Dr. Lewis A. Stimson, Professor of Surgery; Dr. James Ewing, Professor of Pathology; and Dr. Graham Lusk, Professor of Physiology. The College has been well known from the time of its establishment for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900 the College occupied its first permanent headquarters at 28th Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

Cornell University Medical College has always had as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that, in the ideal medical school, teaching activity of a high quality is carried on concurrently with studies of clinical medicine and those life sciences related to the control of disease.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

Soon after its founding Cornell University Medical College entered into an agreement with the New York Hospital to make use of its clinical facilities. The New York Hospital, the oldest in the city, had been founded by Royal Charter in 1771 during the reign of King George III. It has stood since that time as one of the foremost hospitals in the country. The partial affiliation that the two institutions enjoyed was strengthened in 1927 when an agreement between Cornell University and the Society of the New York Hospital established a formal affiliation. The agreement joined the facilities of the two institutions, and provided

for cooperation in the care of patients and in the conduct of medical education and scientific research. In order to harmonize the interests of the Hospital and the Medical College, a Joint Administrative Board was formed. This consists of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of the New York Hospital-Cornell Medical Center was established in 1953. In July, 1966, a new position, that of President of the New York Hospital-Cornell Medical Center, will be established.

In 1932 the New York Hospital-Cornell Medical Center was moved to its group of strikingly designed buildings at York Avenue between 68th and 71st Street. The Center now comprises nineteen buildings, and a twentieth structure, an apartment house for the staff, is under construction. The Cornell University Medical College, the New York Hospital, and the Cornell University-New York Hospital School of Nursing together with their neighbors—the Rockefeller Institute, the Hospital for Special Surgery, and Memorial Sloan-Kettering Cancer Center—form one of the outstanding medical, educational, treatment, and research centers in the world.

FACILITIES FOR INSTRUCTION

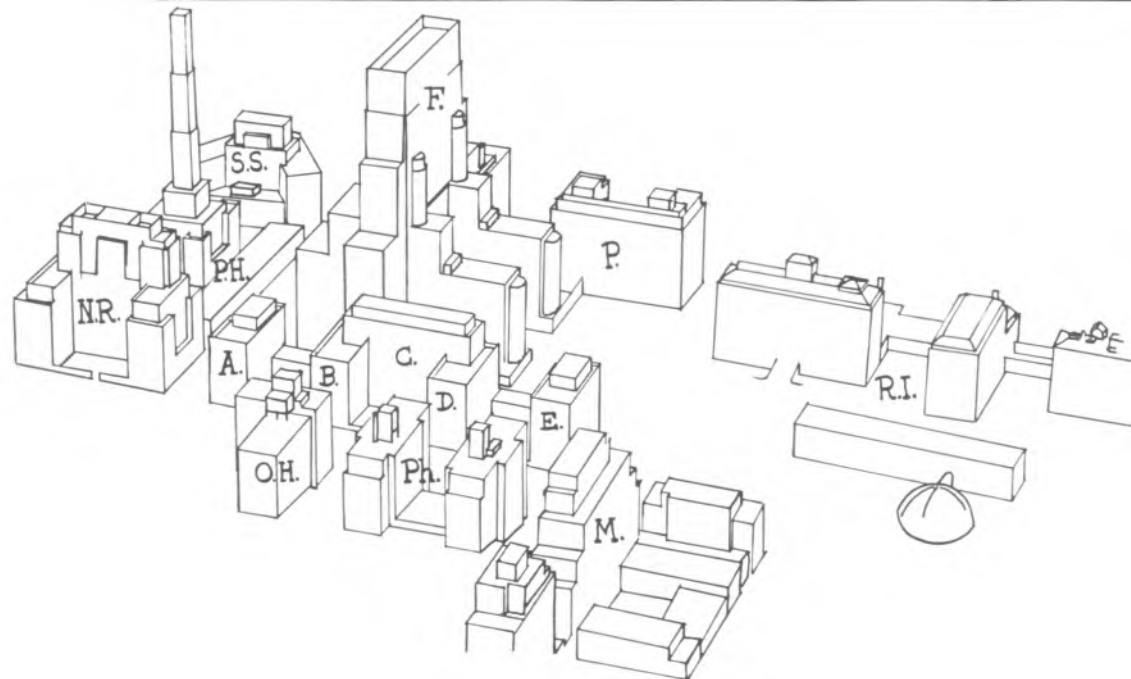
From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

Cornell Medical College

Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms





THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

A. Anatomy.
 B. Microbiology and Immunology.
 C. Administration and Pathology.
 D. Physiology.
 E. Biochemistry and Pharmacology.
 F. New York Hospital.
 M. Memorial Hospital.

N.R. Nurses' Residence.
 O.H. Olin Hall.
 P. Payne Whitney Psychiatric Clinic
 Ph. Phipps Houses.
 P.H. Power and Maintenance.
 R.I. Rockefeller Institute.
 S.S. Hospital for Special Surgery.

for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

New York Hospital

Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provisions for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central hospital building, with six pavilions for bed patients, three floors for its out-patient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1,220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

Other Hospitals for Clinical Instruction

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staff who are also members of the Medical College faculty.

BELLEVUE HOSPITAL. Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the

Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY. The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL. Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

The Loomis Laboratory

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

The Library

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th Street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

The Russell Sage Institute of Pathology

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or

2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. Only exceptional students are admitted with these minimal requirements.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for any student planning to study medicine. We recommend two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for any medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that thorough basic training in the sciences is essential. On the other hand,

a science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1,000 applicants. The members of the committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character and soundness of personality that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York, N.Y. 10021. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be completed during the fall, and no application will be accepted after November 30. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing. Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for readmission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.
2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of

England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York, N.Y. 10021.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge for reviewing an application \$10

ACCEPTANCE DEPOSIT \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1965:

TUITION FEE (for academic year) \$1,600

COMPREHENSIVE FEE (for academic year) \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

1. MATRICULATION FEE

2. STUDENT HOSPITALIZATION INSURANCE. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

3. STUDENT HEALTH SERVICE. See description, page 50.

4. GRADUATION FEE AND RENTAL FEE for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$190 a year, distributed as follows: first year, \$225; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. Olin Hall, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

Livingston Farrand Apartments for married students, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge

is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

FINANCIAL AID

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and on loans.

Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the Admissions Committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. **THE JOHN METCALFE POLK SCHOLARSHIP.** A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty.

2. **THE THORNE SHAW SCHOLARSHIP FUND** provides three scholarships designated as:

First: a scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

3. **MARY F. HALL SCHOLARSHIP.** The income, amounting to about \$180 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. **THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1936, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. **THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.** A fund of \$5,000 established in 1939, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but is tenable for a second or third year providing the qualifications of the candidate merit it. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. **THE JEREMIAH S. FERGUSON SCHOLARSHIP.** Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. **THE CHARLES RUPERT STOCKARD SCHOLARSHIP.** A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest from this fund is to be awarded either to one or to two students who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. **THE DR. JOHN A. HEIM SCHOLARSHIPS.** Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated

medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. **THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.** Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

10. **THE DR. JACQUES SAPHIER SCHOLARSHIP FUND.** Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. **THE ELISE STRANG L'ESPERANCE SCHOLARSHIP** was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell Medical College.

12. **THE RUTH HOLLOHAN SCHOLARSHIP FUND** was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

13. **THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley. This scholarship is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

14. **LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College.

15. **FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

16. **DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.** Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

17. **THE LILLIAN M. CHARLES SCHOLARSHIP FUND** was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

18. **VIVIAN B. ALLEN SCHOLARSHIP.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

19. **MARY LOUISE WUESTER SCHOLARSHIP.** Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

20. **ROBERT E. SPENO SCHOLARSHIP.** Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

21. **ELIZABETH AND NEILL HOUSTON SCHOLARSHIP.** Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

23. **THE JOSEPH P. FERRIGAN FUND.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND** was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

28. **THE MARY PUTNAM JACOBI—ANNA FOREST ROWE**

SCHOLARSHIP. A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

29. JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

30. THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

31. DR. EDWARD HOENIG SCHOLARSHIP FUND. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40, in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. BARBARA V. AND WILLIAM T. HAY SCHOLARSHIP. Funds are given annually by the officers and directors of the J. C. Kellogg Foundation as scholarship support for a student of high scholastic standing who would otherwise be unable to receive his medical education.

33. THE PFIZER LABORATORIES SCHOLARSHIP, in the amount of \$1,000, is contributed annually by the Pfizer Laboratories Medical Scholarship Program. It will be awarded to a medical student who is in need of financial assistance.

34. THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT of \$5,000 is made annually by the Society to provide scholarships for students in need of financial aid.

35. THE WELD FUND SCHOLARSHIP. Established by David and Mary Blake Weld. The income will provide scholarship assistance for needy students who are in good academic standing.

36. THE CARL J. SCHMIDLAPP MEMORIAL FUND. Established by his daughter, Dr. Jean Schmidlapp Humes of the Class of 1949 in memory of her father, Carl J. Schmidlapp, Cornell, '08. The income from the Fund is awarded annually to a deserving student in any class of Cornell University Medical College selected by the faculty on the basis of need and ability.

37. MAIER AND SHANTSYA HITZIG SCHOLARSHIP. Established by Dr. William M. Hitzig of the Class of 1929 in memory of his father and mother through a gift of \$5,000. The income from this fund is to be allotted annually as a scholarship. Preference will be given to students who have done meritorious work in internal medicine.

38. THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP. Generous gifts of \$80,000 each to Cornell Uni-

versity Medical College and three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four year scholarship to one or two students. By these Merit Scholarships the donors hope "to stimulate the most inately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award will be made to a student or students entering the Medical College in 1968.

39. **THE LOIS AND MAX BEREN FOUNDATION.** The Lois and Max Beren Foundation will award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the College and the Foundation, but not to exceed the sum of \$1,800 each academic year.

The student shall be selected by the College subject to the approval of the Foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the Foundation to assist a student who possesses great eagerness to pursue his studies but who would find it impossible or impracticable to do so without the financial support of the Foundation.

40. **THE WALTER C. TEAGLE SCHOLARSHIP FUND.** The Walter C. Teagle Scholarship fund, established on July 1, 1963, by The Teagle Foundation, Incorporated, is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

NEW YORK STATE SCHOLARSHIPS FOR STATE RESIDENTS

SCHOLAR INCENTIVE PROGRAM. Applications should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY. Applications should be filed by October of the last year of pre-professional study.

INFORMATION may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany 1, New York.

Bursary for Women Students

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this

fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.

2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. **JOSEPH C. HINSEY LOAN FUND.** Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

5. **FEDERAL LOAN FUND.** The medical college has participated with the Department of Health, Education, and Welfare in establishing *A Health Professions Student Loan Fund*, Pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963.

NEW YORK STATE GUARANTEED LOANS FOR STATE RESIDENTS

Students seeking New York State guaranteed loans should apply to: New

York Higher Education Assistance Corporation, 111 Washington Avenue, Albany 24, New York.

Prizes

1. **FOR GENERAL EFFICIENCY.** In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. **FOR EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1965 the William Mecklenburg Polk Prize awards for research were:

First prize: Gerald D. Fischbach.

Second prize: Jeffrey H. Gordon.

6. **THE WILLIAM C. THRO MEMORIAL FUND.** Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. **THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY.** Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction the award will be withheld.

8. **THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1965 was awarded to Deborah R. Pavan.

9. **THE GOOD PHYSICIAN AWARD.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. **CHARLES L. HORN PRIZE FUND.** The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. **THE SAMUEL HOLLANDER PRIZE.** The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. **THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.** Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

13. **THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to Dr. Gustave J. Noback, was established to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income of this fund to be awarded yearly at the discretion of the professor in charge. This fund was made possible by a grateful student who wishes to remain anonymous.

14. **THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income from this gift is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the Dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

15. **THE HAROLD G. WOLFF RESEARCH PRIZE.** The prize consists of \$300 and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award will be given at the Autumn Medical School Convocation to the Cornell undergraduate medical student of any class who has completed the outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted on or before September 1 to the Dean's Office.

16. **THE CLARENCE C. CORYELL PRIZE IN MEDICINE.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the

male student having the highest general average in medicine up to the end of his junior year.

17. **THE CLARENCE C. CORYELL PRIZE IN SURGERY.** This prize was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. **THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS.** Various donors contributed to the endorsement for this prize as a Memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in Pediatrics.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. As aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1965 were Jonathan Adler, John J. Caronna, James R. Farina, Nicholas J. Fortuin, Joseph Fratantoni, Ronald H. Geiger, Richard L. Guerrero, Robert E. Gwynn, Harold G. Kunz, Deborah R. Pavan, Lance D. Redler, Lewis M. Rothman, Robert C. Young.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

Officers

Alphonse E. Timpanelli '36, President
Milton Helpert '26, Vice President
Frederic T. Kirkham, Jr. '47, Secretary
Henry Mannix, Jr. '50, Treasurer
William A. Barnes '37, Chairman, Alumni Fund
Richard T. Silver '53, Editor, Alumni Bulletin
Joseph Deitch, Director of Alumnae Relations and Development

Directors

Three Year Term: John M. McLean '34; Richard Karl '44
Two Year Term: E. William Davis '51; Jesse P. Eddy '32; Edward
Hardy '36; Henry H. Kessler '19
One Year Term: Thane Asch '55; Joseph T. Kauer '37

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year except for those of the last three graduating classes, whose dues are \$3 a year. The activities of the Association include a quarterly publication, an annual two-day reunion, banquet, student and faculty parties, panel discussions on topics of interest to the students, and a placement service. The Association maintains an office at 1300 York Avenue.

The annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into thirteen major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology, pathology, pharmacology, and public health. Six departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, and radiology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, para-

sitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME. In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS. Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS. Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING. Lecturer: Mr. Milton L. Zisowitz. A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.



DESCRIPTION OF COURSES

ANATOMY

Roy C. Swan, Professor of Anatomy, Chairman
Joseph C. Hinsey, Professor of Neuroanatomy

Dorothea Bennett, Associate Professor of Anatomy
Dana C. Brooks, Associate Professor of Anatomy
James L. German III, Associate Professor of Anatomy
Wilbur D. Hagamen, Associate Professor of Anatomy
Ernest W. Lampe, Clinical Associate Professor of Anatomy
John MacLeod, Associate Professor of Anatomy
Leonard L. Ross, Associate Professor of Anatomy

Thane Asch, Clinical Assistant Professor of Anatomy
Saul Bader, Assistant Professor of Anatomy
Thomas H. Meikle, Jr., Assistant Professor of Anatomy
Benjamin D. Stinson, Assistant Professor of Anatomy

Instructors:

Chen Ya Huang
Elsa H. J. O'Donnell

Muriel Sackler
Richard G. Skalko

Research Associate:

Duk Ho Lee

Research Fellow:

Martin Hagopian

Assistants:

Anna Drakontides

Sarah Schilling

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is what are its spatial relations, its form, its configuration and the time courses of development of these spatial relations. This is the substance and this is the unique aspect of biological systems which constitute the Anatomical sciences.

Our objective is to bring this unique aspect of the human organism into focus for the first year medical student, and to present the major structural concepts and principles. In this presentation we aim for some appreciation of how these concepts have evolved, how these principles have been established, and what are the outstanding questions. We provide the student with first-hand experience in some of the methods of anatomy and encourage him to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, we offer a penetrating analysis of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will in the professional lifetime of the student be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into four courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural or functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student

studies under the direct supervision of one of five tutors. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

MICROSCOPIC ANATOMY. Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, x-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. A term paper provides an experience in deeper inquiry and serves as an introduction to the library. Laboratory and lectures, 165 hours.

GROSS ANATOMY. Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY. The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and by use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY & GENETICS. Lectures and laboratory are designed to help the student visualize basic embryological relationships, and to introduce him to fundamental concepts and problems of heredity. Lectures in embryology stress those areas of early development, organogenesis, and experimental embryology which clarify aspects of adult structure and function and aid in understanding congenital defects. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and population theory. 77 hours.

Elective Courses

A. GENETICS SEMINAR. Organized on basis of four semesters. Covers selected topics in rotation. Subjects for 1965-66 are: 1. (Fall, 1965-66). Gene action and differentiation in higher organisms. 2. (Spring, 1966). Human genetics and medical genetics. Drs. Bennett and German.

B. CLINICAL ANATOMY. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Dr. Lampe.

GROSS ANATOMY FOR GRADUATES. Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY. An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH. Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Pre-doctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuromorphology, embryology, or genetics.

BIOCHEMISTRY

Vincent du Vigneaud, Professor of Biochemistry, Chairman
Julian R. Rachele, Professor of Biochemistry

Roy W. Bonsnes, Associate Professor of Biochemistry
Aaron S. Posner, Associate Professor of Ultrastructural Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry
William D. Cash, Assistant Professor of Biochemistry
Wah-Yip Chan, Assistant Professor of Biochemistry
Helena Gilder, Assistant Professor of Biochemistry
Julius Golubow, Assistant Professor of Biochemistry
S. Steven Hotta, Assistant Professor of Biochemistry
Theodore A. Mahowald, Assistant Professor of Biochemistry
Edward T. Schubert, Assistant Professor of Biochemistry

Instructors:

George Fluoret

Hanspaul Hagenmaier

Research Associates:

Luis A. Branda

Dieter Gillessen

Barbara M. Ferrier

Donald Yamashiro

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERMS. Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and purines; enzymes, digestion, intestinal putrefaction, and feces: the composi-

tion of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM. Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

Electives

ADVANCED LABORATORY WORK OR RESEARCH. By special arrangement.

Courses Open to Special Students

BIOCHEMISTRY. Fee, \$25 a term.

BIOCHEMICAL LITERATURE. Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION. Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY. By arrangement with the head of the department.

MEDICINE

E. Hugh Luckey, Professor of Medicine, Chairman *
 David D. Thompson, Professor of Medicine, Acting Chairman
 Thomas P. Almy, Professor of Medicine
 Joseph H. Burchenal, Professor of Medicine
 Anthony C. Cipollaro, Clinical Professor of Medicine (Dermatology)
 Frank E. Cormia, Clinical Professor of Medicine (Dermatology)
 John E. Deitrick, Professor of Medicine
 Henry S. Dunning, Clinical Professor of Neurology in Medicine
 Aaron Feder, Clinical Professor of Medicine
 Claude E. Forkner, Clinical Professor of Medicine
 Richard H. Freyberg, Clinical Professor of Medicine
 Elliot Hochstein, Clinical Professor of Medicine
 Edward W. Hook, Professor of Medicine
 Frank L. Horsfall, Jr., Professor of Medicine
 B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)
 Allyn B. Ley, Professor of Medicine
 Carl Muschenheim, Clinical Professor of Medicine
 Fred Plum, Anne Parrish Titzell Professor of Neurology in Medicine
 Rulon W. Rawson, Professor of Medicine
 George G. Reader, Professor of Medicine
 Marvin B. Slesinger, Professor of Medicine
 Robert F. Watson, Clinical Professor of Medicine
 Irving S. Wright, Clinical Professor of Medicine

Jeremiah A. Barondess, Clinical Associate Professor of Medicine

* On leave of absence.

David V. Becker, Associate Professor of Medicine
 E. Lovell Becker, Associate Professor of Medicine
 Henry A. Carr, Clinical Associate Professor of Medicine
 William N. Christenson, Clinical Associate Professor of Medicine
 George O. Clifford, Associate Professor of Medicine
 Eugene J. Cohen, Clinical Associate Professor of Medicine
 Farrington Daniels, Jr., Associate Professor of Medicine (Dermatology)
 John W. Dougherty, Clinical Associate Professor of Medicine (Dermatology)
 Murray Dworetzky, Clinical Associate Professor of Medicine
 Borje Ejrup, Associate Professor of Medicine
 Ralph L. Engle, Jr., Associate Professor of Medicine
 Albert J. Erdmann, Jr., Clinical Associate Professor of Medicine
 William T. Foley, Clinical Associate Professor of Medicine
 Constance Friess, Clinical Associate Professor of Medicine
 George W. Frimpter, Associate Professor of Medicine
 William Geller, Clinical Associate Professor of Medicine
 Sidney M. Greenberg, Clinical Associate Professor of Medicine
 Lawrence E. Hinkle, Jr., Associate Professor of Medicine
 Melvin Horwith, Clinical Associate Professor of Medicine
 Raymond Houde, Associate Professor of Medicine
 Graham Jeffries, Associate Professor of Medicine
 William H. Kammerer, Clinical Associate Professor of Medicine
 David A. Karnofsky, Associate Professor of Medicine
 George L. Kauer, Clinical Associate Professor of Medicine
 Thomas Killip III, Associate Professor of Medicine
 Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
 Gerald H. Klingon, Clinical Associate Professor of Neurology in Medicine
 John S. Ladue, Clinical Associate Professor of Medicine
 Charles S. Lieber, Associate Professor of Medicine
 Robert M. Lintz, Clinical Associate Professor of Medicine
 Mack Lipkin, Clinical Associate Professor of Medicine
 Martin Lipkin, Associate Professor of Medicine
 Donald B. Louria, Associate Professor of Medicine
 Daniel S. Lukas, Associate Professor of Medicine
 Ellen McDevitt, Associate Professor of Medicine
 Fletcher H. McDowell, Associate Professor of Neurology in Medicine
 Robert H. Melchionna, Clinical Associate Professor of Medicine
 W. P. Laird Myers, Associate Professor of Medicine
 Theodore W. Oppel, Clinical Associate Professor of Medicine
 Mary Ann Payne, Clinical Associate Professor of Medicine
 Ralph E. Peterson, Associate Professor of Medicine
 R. A. Rees Pritchett, Clinical Associate Professor of Medicine
 William C. Robbins, Clinical Associate Professor of Medicine
 Sidney Rothbard, Associate Professor of Medicine
 Albert L. Rubin, Associate Professor of Medicine
 Donald J. Simons, Clinical Associate Professor of Neurology in Medicine
 Martin Sonenberg, Associate Professor of Medicine
 Chester M. Southam, Associate Professor of Medicine
 Norton Spritz, Associate Professor of Medicine
 Israel Steinberg, Clinical Associate Professor of Medicine
 Peter E. Stokes, Clinical Associate Professor of Medicine
 Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
 Douglas P. Torre, Clinical Associate Professor of Medicine (Dermatology)
 Parker Vanamee, Associate Professor of Medicine
 Bruce P. Webster, Clinical Associate Professor of Medicine
 Byard Williams, Clinical Associate Professor of Medicine
 Felix Wroblewski, Clinical Associate Professor of Medicine

 Seymour Advocate, Clinical Assistant Professor of Medicine
 Anthony A. Antoville, Clinical Assistant Professor of Medicine
 Kenneth C. Archibald, Assistant Professor of Medicine (Physical Medicine)
 Lucien Arditi, Clinical Assistant Professor of Medicine

George C. Armistead, Clinical Assistant Professor of Medicine
 Donald Armstrong, Assistant Professor of Medicine
 Sam C. Atkinson, Clinical Assistant Professor of Medicine (Dermatology)
 Olav Austlid, Clinical Assistant Professor of Medicine (Physical Medicine)
 Nils U. Bang, Assistant Professor of Medicine
 Lloyd T. Barnes, Clinical Assistant Professor of Medicine
 Curtis H. Baylor, Clinical Assistant Professor of Medicine
 Bry Benjamin, Clinical Assistant Professor of Medicine
 Richard C. Benua, Assistant Professor of Medicine
 Carl A. Berntsen, Jr., Clinical Assistant Professor of Medicine
 Norman Brachfeld, Assistant Professor of Medicine
 Keeve Brodman, Clinical Assistant Professor of Medicine
 John L. Brown, Jr., Clinical Assistant Professor of Medicine
 Veronica Brown, Clinical Assistant Professor of Medicine
 J. Robert Buchanan, Assistant Professor of Medicine
 Edward A. Burkhardt, Clinical Assistant Professor of Medicine
 Donald J. Cameron, Clinical Assistant Professor of Medicine
 Susan T. Carver, Assistant Professor of Medicine
 Aaron D. Chaves, Clinical Assistant Professor of Medicine
 Bayard D. Clarkson, Assistant Professor of Medicine
 Denton S. Cox, Clinical Assistant Professor of Medicine
 Marion Davis, Clinical Assistant Professor of Medicine
 Milton Davis, Assistant Professor of Sociology in Medicine
 Paul De Gara, Clinical Assistant Professor of Medicine
 Peter G. Denker, Clinical Assistant Professor of Neurology in Medicine
 Monroe T. Diamond, Clinical Assistant Professor of Medicine
 William Eisenmenger, Clinical Assistant Professor of Medicine
 Henry R. Erle, Clinical Assistant Professor of Medicine
 George C. Escher, Clinical Assistant Professor of Medicine
 John A. Finkbeiner, Clinical Assistant Professor of Medicine
 John T. Flynn, Clinical Assistant Professor of Medicine
 Alvin H. Freiman, Clinical Assistant Professor of Medicine
 Eugene D. Furth, Assistant Professor of Medicine
 Horace T. Gardner, Clinical Assistant Professor of Medicine
 Robert B. Golbey, Clinical Assistant Professor of Medicine
 George W. Gorham, Clinical Assistant Professor of Medicine
 Mary E. W. Goss, Assistant Professor of Sociology in Medicine
 Ernest Greenberg, Clinical Assistant Professor of Medicine
 Keith O. Guthrie, Jr., Clinical Assistant Professor of Medicine
 Thomas C. Guthrie, Clinical Assistant Professor of Neurology in Medicine
 Susan J. Hadley, Assistant Professor of Medicine
 Leonard I. Heimoff, Clinical Assistant Professor of Medicine
 Milton Helpert, Clinical Assistant Professor of Medicine
 Richard Herrmann, Clinical Assistant Professor of Medicine
 Lawrence S. Hobson, Clinical Assistant Professor of Medicine
 Milton Hollenberg, Assistant Professor of Medicine
 Eugene L. Horgert, Clinical Assistant Professor of Medicine
 Herbert I. Horowitz, Clinical Assistant Professor of Medicine
 Donald W. Hoskins, Clinical Assistant Professor of Medicine
 Abraham S. Jacobson, Clinical Assistant Professor of Medicine
 Anna Kara, Assistant Professor of Medicine (Physical Medicine)
 J. Harry Katz, Clinical Assistant Professor of Medicine (Dermatology)
 Donald Kaye, Assistant Professor of Medicine
 Lemoyne C. Kelly, Clinical Assistant Professor of Medicine
 Anne C. Kimball, Assistant Professor of Microbiology in Medicine
 Henry B. Kirkland, Clinical Assistant Professor of Medicine
 Samuel S. Koide, Assistant Professor of Medicine
 Herbert Koteen, Clinical Assistant Professor of Medicine
 Irwin H. Krakoff, Assistant Professor of Medicine
 Henn Kutt, Assistant Professor of Neurology in Medicine
 Costas T. Lambrew, Clinical Assistant Professor of Medicine
 Burton J. Lee III, Clinical Assistant Professor of Medicine

Richard E. Lee, Clinical Assistant Professor of Medicine
 Robert D. Leeper, Assistant Professor of Medicine
 Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
 Glenn D. Lubash, Assistant Professor of Medicine
 Norton M. Luger, Clinical Assistant Professor of Medicine
 Melville G. Magida, Clinical Assistant Professor of Medicine
 Aaron J. Marcus, Assistant Professor of Medicine
 Philip Marsden, Assistant Professor of Medicine (Tropical Medicine)
 Klaus Mayer, Assistant Professor of Medicine
 Abraham Mazur, Clinical Assistant Professor of Biochemistry in Medicine
 A. Parks Mc Combs, Clinical Assistant Professor of Medicine
 Richard R. McCormack, Clinical Assistant Professor of Medicine
 James F. McGovern, Clinical Assistant Professor of Medicine
 Paul R. McHugh, Assistant Professor of Neurology in Medicine
 George A. McLemore, Jr., Clinical Assistant Professor of Medicine
 Allen W. Mead, Clinical Assistant Professor of Medicine
 Daniel G. Miller, Assistant Professor of Medicine
 Ralph L. Nachman, Assistant Professor of Medicine
 Irwin Nydick, Clinical Assistant Professor of Medicine
 Artemis G. Pazianos, Clinical Assistant Professor of Medicine
 Francis S. Perrone, Clinical Assistant Professor of Medicine
 Norman Plummer, Clinical Assistant Professor of Medicine
 Jerome B. Posner, Assistant Professor of Neurology in Medicine
 James W. Raleigh, Clinical Assistant Professor of Medicine
 Donald J. Reis, Assistant Professor of Neurology in Medicine
 John C. Ribble, Assistant Professor of Medicine
 Jack Richard, Clinical Assistant Professor of Medicine
 Edgar A. Riley, Clinical Assistant Professor of Medicine
 Thomas N. Roberts, Clinical Assistant Professor of Medicine
 Bernard Rogoff, Clinical Assistant Professor of Medicine
 David Roseman, Clinical Assistant Professor of Medicine
 Isadore Rosenfeld, Clinical Assistant Professor of Medicine
 Emmanuel Rudd, Clinical Assistant Professor of Medicine
 Paul Ruegsegger, Clinical Assistant Professor of Medicine
 Paul D. Saville, Assistant Professor of Medicine
 Lawrence Scherr, Assistant Professor of Medicine
 Leonard Schuyler, Clinical Assistant Professor of Medicine
 Ernest Schwartz, Clinical Assistant Professor of Medicine
 Arthur W. Seligmann, Clinical Assistant Professor of Medicine
 Charles Sheard III, Clinical Assistant Professor of Medicine (Dermatology)
 Edward M. Shepard, Clinical Assistant Professor of Medicine
 Paul Sherlock, Clinical Assistant Professor of Medicine
 Maurice E. Shils, Assistant Professor of Medicine
 Richard T. Silver, Clinical Assistant Professor of Medicine
 Gerald M. Silverman, Clinical Assistant Professor of Medicine
 Cyril Solomon, Clinical Assistant Professor of Pathology in Medicine
 Lawrence S. Sonkin, Clinical Assistant Professor of Medicine
 Aaron D. Spielman, Clinical Assistant Professor of Medicine
 Willard H. Squires, Clinical Assistant Professor of Medicine
 Herman Steinberg, Clinical Assistant Professor of Medicine
 Kurt Stenzel, Assistant Professor of Medicine
 Richard W. Stone, Clinical Assistant Professor of Medicine
 James C. Strickler, Assistant Professor of Medicine
 William D. Stubenbord, Clinical Assistant Professor of Medicine
 Marguerite P. Sykes, Assistant Professor of Medicine
 Louis J. Vorhaus II, Clinical Assistant Professor of Medicine
 Harold Wainerdi, Clinical Assistant Professor of Medicine
 Lila A. Wallis, Clinical Assistant Professor of Medicine
 Clinton G. Weiman, Clinical Assistant Professor of Medicine
 Aaron O. Wells, Clinical Assistant Professor of Medicine
 Charles A. Werner, Clinical Assistant Professor of Medicine
 Elliot Weser, Assistant Professor of Medicine

A. Lee Winston, Clinical Assistant Professor of Medicine
 Alexander W. Young, Jr., Clinical Assistant Professor of Medicine (Dermatology)

Instructors:

Fritz H. Bach	Fred A. Gill	Walter Rubin
Richard E. Bettigole	Harold Isaacson	Ellen Scheiner
Joseph C. Dougherty	Andre Lefevre	Arnold Silverberg
Elizabeth Eilers	Sidney Louis	Chull S. Song
M. Elaine Eyster	Carlton MacDonald	Anthony S. Werner
Thomas Fahey	Donald McKaba	Jeannine Williams
Jose F. Figueiredo	Robert C. K. Riggins	William G. Winters
Martin Gardy	Edmund O. Rothschild	Samuel Yeh

Clinical Instructors:

Henriette E. Abel	Claude E. Forkner, Jr.	Nicholas T. Macris
Robert R. Abel	Francis J. Gilroy	John F. Marchand
William A. Anderson	Robert D. Gittler	Mark R. Marciano
Ralph Baer	David L. Globus	Robert S. Martin
Bertrand Bell	David Gluck	Neva Eileen Mc Grath
James S. Bernstein	Maurice E. Goldman	David W. Molander
Harry Bienenstock	Seymour Grossman	Willis A. Murphy
Morton Blum	Marshall J. Hanley	Luigia Norsa
Francis A. Boddy	Herman G. Helpert	Martin Nydick
Aaron W. Bortin	Raymond B. Hochman	Sydnor B. Penick
Warren S. Braveman	Helene Holtz	Richard Perkins
Samuel H. Brethwaite	Norman Isaacs	Aurelia Potor
Harrison O. Brown	Bernard W. Jaslowitz	John H. Prunier
Bernard H. Burbank	Thomas P. Jernigan	James A. Reilly
Walter A. Camp	Barry M. Josephson	Sanford M. Reiss
Eric J. Cassell	Vincent Joy	Charles Ressler
Vincent Cipolaro	Ivan J. Kahn	Thomas G. Rigney
Hugh E. Claremont	Lawrence I. Kaplan	Seymour N. Rinzler
Melva A. Clark	Susan R. Kessler	Lawrence Scharer
Burton D. Cohen	John T. Kimball, Jr.	Frank A. Seixas
C. Stephen Connolly	Bernard Koven	Harry A. Sinclair
Francis P. Coombs	Mortimer Lacher	Alan G. Snart
Jean A. Cramer	Charles S. LaMonte	Peter H. Stern
Richard A. P. Cupiauoli	Martha Larson	Katharine W. Swift
Jeff Davis	Harold L. Leder	Thomas T. Tamlyn
Peter de Nesnera	James W. Ledwith	Charles K. Tashima
Carolyn H. Diehl	Leo R. Lese	Carl Wierum
Robert E. Dye	Bruce C. Levy	Florence A. Wilson
Robert E. Eckardt	Charles N. Lewis	Edward A. Wolfson
Ernest R. Esakof	Marjorie Lewisohn	Edward L. Worthington
Ralph A. Eskesen	John LoVerme	Seymour Zucker

Research Associates:

Eleanor E. Deschner	Rhoda M. Michaels	Margaret E. Todd
Zbigniew Latello	Eladio A. Nunez	Erna Werber

Fellows:

Emilio Abello	Shelley M. Brown	Hirochi Demura
Howard Adler	Robert E. Burdick	Reiko Demura
Robert S. Ascheim	Edward Callahan	Edgar J. Desser
Alan R. Baskin	Phillips Champion	Malin R. Dollinger
Emory Beechwood	Robert Collier	David F. Dozier
Robert Binford	C. Glenn Cobbs	J. Donald Easton
Gary Birnbaum	Alvaro Comacho	Alvin N. Ehrlich
Michael J. Bradford	Wayne E. Crill	Edwin Ettinger
Hollister Brewster	Carter Davis	Lawrence Feinman
Larry T. Brice	Frank DeFuria	Willard B. Fessenden

Irving Fish
 Thomas Forde
 Hilton L. Fowler
 David Fulmer
 Neil D. Gallagher
 Teruo J. Gemba
 Howard Goldin
 Victor Grann
 Peter Harpel
 Arthur Hayes
 Joseph G. Hayes
 Bernard Heckman
 Leonard Hudson
 Robert Johnson
 John Jones
 Thomas Jones
 Neil I. Kaminsky
 Robert Kerr
 Karl Keller
 Ludwig Klein
 Neil Klein
 Stuart Klein
 Mary Jeanne Kreek
 Charles Krone
 Charles N. Leach
 John E. Lee
 Louis Levovsky
 Myron Lewis

Phillip R. Liebson
 Byron T. Liggett
 Marianne Lindner
 William B. Lloyd
 Luther B. Lowe
 Gerald L. Mandell
 Carlos A. Mautalen
 William S. Meade
 James H. Meyer
 Walter Mountcastle
 Helga W. Mulzynieks
 Willibald Nagler
 George A. Omura
 John L. Peterson
 Keith Peterson
 Andrew Plaut
 Lynn H. Ratner
 Alexander G. Reeves
 Albert Ross
 Melvin Rubenstein
 Carol F. Rutgers
 William J. Schneider
 William Scott
 Arthur Shapiro
 William R. Shapiro
 Harvey Silver
 Barton L. Smith

James P. Smith
 Michael V. Sobel
 Ahmet Sonel
 George A. Stalder
 Charles Steinberg
 Phyllis A. Stephenson
 Charles A. Stringfellow
 Emanuel Theodor
 James R. Tracey
 Lewis Travis
 Cecil D. Tripp
 Bart L. Troy
 Arthur Turk
 Thomas Tuttle
 George Ubogy
 Alice Ullmann
 John Van Der Decker
 Gary Wadler
 William E. Wallis
 John H. Walsh
 Claude Wasterlain
 Thomas F. Whayne
 Martin Wolfe
 Alan Yagoda
 Stanley Yormak
 Lowell Sung-Yi Young
 John L. Ziegler

Research Fellows:

Christina B. Gidynski
 Helen B. Goodell

Martin Hyman
 Marion Isaacs

Edward W. Lehman

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
 Robert L. Yeager (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the third term of the second year under the direction of Dr. Hadley. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Luckey and Bellevue

Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior student is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES. Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

Medical Comprehensive Care and Teaching Program

The course in comprehensive medicine occupies the major attention of the senior class during one-third of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designed as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the

staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, Nursing Service provides consultation on the function and availability of community nursing resources.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

Representatives of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation service in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and laboratory research are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program in collaboration with Dr. Edward Liang from psychiatry and Dr. Barbara Ashe from pediatrics.

MICROBIOLOGY

William F. Scherer, Professor of Microbiology, Chairman
John Y. Sugg, Professor of Microbiology

William M. O'Leary, Associate Professor of Microbiology

Irving Abrahams, Assistant Professor of Microbiology
Robert W. Dickerman, Assistant Professor of Microbiology
Sidney E. Grossberg, Assistant Professor of Microbiology
Elena I. Ottolenghi, Assistant Professor of Microbiology
Dieter H. Sussdorf, Assistant Professor of Microbiology

Research Fellows:

Cesar Wong-Chia

Donald McKaba

Maria L. Zarate

Assistant:

Samuel T. Waide

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and the prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

Elective Courses

A. For students as time permits.

1. Research in a selected discipline of microbiology (bacteriology, immunology, microbial chemistry, microbial genetics, mycology, or virology).

B. For sophomore, junior, or senior students during electives.

1. Research as above.

2. Graduate courses, given annually, biannually, or every third year during the third trimester, are open to medical students at the lecture level; laboratory participation depends upon space available.

a. Microbial chemistry and physiology. Dr. O'Leary.

b. Advanced immunology. Dr. Sussdorf.

c. Advanced mycology. Dr. Abrahams.

d. Advanced virology. Drs. Grossberg, Sugg and Scherer.

e. Microbial genetics. Dr. Ottolenghi.

OBSTETRICS AND GYNECOLOGY

Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman

Joseph F. Artusio, Jr., Professor of Anesthesiology in Obstetrics and Gynecology

Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology

Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology

Elmer E. Kramer, Clinical Professor of Obstetrics and Gynecology

Charles M. McLane, Clinical Professor of Obstetrics and Gynecology

Roy W. Bonsnes, Associate Professor of Biochemistry of Obstetrics and Gynecology

E. William Davis, Clinical Associate Professor of Obstetrics and Gynecology

Thomas F. Dillon, Clinical Associate Professor of Obstetrics and Gynecology

Randolph Gefpert, Clinical Associate Professor of Obstetrics and Gynecology

William P. Given, Clinical Associate Professor of Obstetrics and Gynecology

Oscar Glassman, Clinical Associate Professor of Obstetrics and Gynecology

Arthur V. Greeley, Clinical Associate Professor of Obstetrics and Gynecology

Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology

Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology

Edward C. Mann, Clinical Associate Professor of Obstetrics and Gynecology

Benjamin E. Marbury, Clinical Associate Professor of Obstetrics and Gynecology

George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology

William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology

Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

Hugh K. Barber, Clinical Assistant Professor of Obstetrics and Gynecology

Carl G. Beling, Visiting Assistant Professor of Obstetrics and Gynecology

Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology

Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology

Myron I. Buchman, Clinical Assistant Professor of Obstetrics and Gynecology

Justin Callahan, Clinical Assistant Professor of Obstetrics and Gynecology

John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology

David B. Crawford, Clinical Assistant Professor of Obstetrics and Gynecology

William F. Finn, Clinical Assistant Professor of Obstetrics and Gynecology

Walter Freedman, Clinical Assistant Professor of Obstetrics and Gynecology

Hortense Gandy, Assistant Professor of Obstetrics and Gynecology

Robert C. Knapp, Clinical Assistant Professor of Obstetrics and Gynecology

Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology

Stewart L. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology

Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology

Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology

Melville A. Platt, Clinical Assistant Professor of Obstetrics and Gynecology

John T. Queenan, Clinical Assistant Professor of Obstetrics and Gynecology

Richard A. Ruskin, Clinical Assistant Professor of Obstetrics and Gynecology

Samuel F. Ryan, Assistant Professor of Obstetrics and Gynecology

E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology

Edward Stanton, Clinical Assistant Professor of Obstetrics and Gynecology

78 OBSTETRICS AND GYNECOLOGY

Alan Van Poznak, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Robert E. Wieche, Clinical Assistant Professor of Obstetrics and Gynecology

Instructors:

Gerald Anderson

Richard Hnat

Clinical Instructors:

Naef K. Basile

Charles H. Bippart

Jerome H. Brander

Anthony Deep

John Durso

Hugh Halsey

Robert Hardy

James Johnson

John R. Langstadt

Robert N. Melnick

Irwin Merkatz

Myles C. Morrison

Gideon G. Panter

Virginia K. Pierce

Frederick Silverman

Jay B. Skelton

E. Thomas Steadman

William D. Walden

Virginia Werden

Fellows:

Alan M. Blank

Charles M. Culpert

Robert Fear

Myron A. Hays

Albert C. Lesneski

Sanford Markham

Paul McCleary

Philip B. Mead

Richard Murphy

Vincent V. Poblete

Thomas Quetel

Joseph Raziano

Joseph Elliott Ringland

Abraham Risk

William H. Robischon

Jack Shuber

John Skowronski

Barry Smith

The Lying-In-Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6,000 adult admissions to the obstetrical service and 2,500 to the gynecological service each year.

Second Year

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION. During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given in groups of four students six days weekly. 4 hours.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

Third Year

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY. Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays, 8:30 to 9:30 a.m., throughout the year. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION. Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises.

COURSE III. SEMINAR. Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays, 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor.

COURSE IV. NEOPLASTIC DISEASES. Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays, 9:30 to 10:30 a.m.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays, 10:30 a.m. to 12:30 p.m. Total hours, 77 for Courses II, III, IV and V.

Fourth Year

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY. Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS. A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m.

SEMINARS. The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m.

Elective Courses

PRACTICAL OBSTETRICS AND GYNECOLOGY. A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and, in general, will be designed to meet the student's qualifications.

PATHOLOGY

A. Whitley Branwood, Associate Professor of Pathology, Acting Chairman
John G. Kidd, Professor of Pathology
Robert C. Mellors, Professor of Pathology

Aaron Kellner, Clinical Associate Professor of Pathology
George Murphy, Associate Professor of Pathology
Goetz W. Richter, Associate Professor of Pathology
John E. Seybolt, Clinical Associate Professor of Pathology
Jean E. Todd, Clinical Associate Professor of Pathology
Richard M. Torack, Associate Professor of Pathology

Jack W. C. Hagstrom, Assistant Professor of Pathology
William D. Johnson, Clinical Assistant Professor of Pathology
C. Richard Minick, Assistant Professor of Pathology
William W. Schlaepfer, Assistant Professor of Pathology
Leslie H. Sobin, Assistant Professor of Pathology

Instructors:

Carl G. Becker	Carolyn W. Watson
Andrew H. Littell	

Research Associate:

Benjamin A. Jackson

Visiting Fellow:

L. Wittington Gorham

Fellows:

Daniel R. Alonso	Sin Hang Lee
Donald Catino	Janet A. Mouradian
Claude C. Cornwall	James B. Powell
Azak Eryol	Gerard F. Ryan
M. Gary Hadfield	James M. Woodruff

Assistant:

Charlotte Street

Lecturers:

Arthur S. Carlson	Theodore Robertson
Milton Helpen	

General Pathology

FACILITIES

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The post mortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION. Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY. Required in the first and second terms of the second year. Professor Branwood and staff. 264 hours.

NEUROPATHOLOGY. The pathology of the nervous system is studied, and altered structure and function are correlated. Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES. These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES. A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

Wallace W. McCrory, Professor of Pediatrics, Chairman

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics

Leona Baumgartner, Clinical Associate Professor of Pediatrics

Samuel R. Berenberg, Clinical Associate Professor of Pediatrics

Margaret Dann, Associate Professor of Pediatrics

Paul F. de Gara, Clinical Associate Professor of Pediatrics (Allergy)
 Mary A. Engle, Associate Professor of Pediatrics
 Nathan Epstein, Clinical Associate Professor of Pediatrics
 Marion E. Erlandson, Associate Professor of Pediatrics
 John E. Franklin, Clinical Associate Professor of Pediatrics
 James L. German III, Associate Professor of Pediatrics
 Henry P. Goldberg, Clinical Associate Professor of Pediatrics
 Edmund N. Joyner III, Clinical Associate Professor of Pediatrics
 Milton I. Levine, Clinical Associate Professor of Pediatrics
 M. Lois Murphy, Associate Professor of Pediatrics
 Maxwell Stillerman, Clinical Associate Professor of Pediatrics
 Marjorie A. Wheatley, Clinical Associate Professor of Pediatrics

Barbara S. Ashe, Assistant Professor of Pediatrics
 Peter A. McF. Auld, Assistant Professor of Pediatrics
 Richard R. Bass, Clinical Assistant Professor of Pediatrics
 Charles H. Bauer, Clinical Assistant Professor of Pediatrics
 Otto E. Billo, Clinical Assistant Professor of Pediatrics
 Marvin J. Gersh, Clinical Assistant Professor of Pediatrics
 Martin J. Glynn, Clinical Assistant Professor of Pediatrics
 Julius Golubow, Assistant Professor of Biochemistry in Pediatrics
 Margaret T. Grossi, Clinical Assistant Professor of Pediatrics
 Herman Grossman, Assistant Professor of Pediatrics (Radiology)
 James Q. Haralambie, Clinical Assistant Professor of Pediatrics
 Frederick C. Hunt, Clinical Assistant Professor of Pediatrics
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics
 Wan Ngo Lim, Assistant Professor of Pediatrics
 Florence N. Marshall, Clinical Assistant Professor of Pediatrics
 Armond V. Mascia, Clinical Assistant Professor of Pediatrics
 Robert G. McGovern, Clinical Assistant Professor of Pediatrics
 Marion McIlveen, Clinical Assistant Professor of Pediatrics
 Virginia C. Mitty, Clinical Assistant Professor of Pediatrics
 Joan E. Morgenthau, Clinical Assistant Professor of Pediatrics
 Maria I. New, Assistant Professor of Pediatrics
 Edward T. Schubert, Assistant Professor of Biochemistry in Pediatrics
 Madoka Shibuya, Clinical Assistant Professor of Pediatrics
 Martha L. Smith, Clinical Assistant Professor of Pediatrics
 Gertrude S. Stern, Assistant Professor of Pediatrics
 Charlotte T. C. Tan, Assistant Professor of Pediatrics
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics
 Louis E. Weymuller, Clinical Assistant Professor of Pediatrics
 Myron Winick, Assistant Professor of Pediatrics
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

Instructors:

Margaret W. Hilgartner	Hart deCoudres Peterson
Lenore S. Levine	William T. Seed

Clinical Instructors:

Marvin Boris	Philip W. H. Eskes	William J. Peter
Mary C. Buchanan	Yvette F. Francis	Olive E. Pitkin
Walter T. Carpenter	Diane B. Gareen	Virginia E. Pomeranz
Benedict S. Caterinicchio	Doris K. Goldberg	Melvin S. Rosh
Leon I. Charash	George S. Goldstein	Howard Schreiber
Ruth Cudmore	Howard N. Kandell	Beatrice S. Slater
Alan P. De Mayo	Carl P. Kremer	David I. Smith
Joseph H. Di Leo	Karl Neumann	Jerome M. Torsney
Kathryn H. Ehlers	Rebecca F. Notterman	Alvah M. Weiss

Research Associates:

Katharine Cobb	Helen McNamara
Frances V. DeGeorge	

Fellows:

Parichehr Abadee
Joan M. Arboit
Peter J. Axel
Renée M. Brilliant
Virginia C. Canale
Peter B. Farnsworth
Theodore M. Ginsberg

Robert T. Giombetti
Abby J. Greenberg
Edith P. Halvorson
Martin A. Hauptman
Alfred N. Krauss
David Krayanek
John H. Krikorian

Melville G. Magida
Jean-Guy Mongeau
Alfred L. Scherzer
James S. Tang
Donald W. Thibeault
Delilah L. Turpin

Lecturer:

Henry N. Pratt

THIRD YEAR. A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children, principles of genetics and nutrition, and peculiarities of disease in early life. Students serve as clinical clerks on the pediatric pavilions of the New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and weekends. Special rounds and seminars are arranged for the clerks; they also attend regular departmental conferences and rounds. Total hours, 205.

FOURTH YEAR. The students' activities are part of the Ambulatory Care Program. Students are assigned to the outpatient department in the mornings where they are given supervised responsibility for the diagnosis and management of ambulatory pediatric patients in the General Pediatric Clinic and Pediatric Isolation Unit. Rotations in the Pediatric Emergency Unit are scheduled in the evenings and on weekends. Several sessions in the Well Baby Clinic are also assigned. A series of seminars dealing with ambulatory pediatric problems are also held. Total hours, 70.

Elective Courses

SECOND YEAR. Elective courses are offered to second year students in the third trimester. Participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR. Elective courses are offered in clinical and research activities. Full-time or part-time programs in the outpatient department are available. Participation in a number of subspecialty programs of a clinical, research or combined clinical-research emphasis can be arranged individually with members of the department.

PHARMACOLOGY

Walter F. Riker, Jr., Professor of Pharmacology, Chairman

Walter Modell, Associate Professor of Pharmacology

Jay Roberts, Associate Professor of Pharmacology

Frank G. Standaert, Associate Professor of Pharmacology

Amir Askari, Assistant Professor of Pharmacology

Instructors:

William T. Beaver
Barrie Levitt

Alan Van Poznak

Research Fellows:Frank R. Ciofalo
Michiko OkamotoArthur Raines
Carlos G. Widmer

SECOND YEAR. Laboratory work, demonstrations, seminars, are given during the first and second terms of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology with a secondary reference to systematic consideration of drugs. There is no particular concern with therapeutic applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 154 hours.

Elective Courses

SECOND YEAR. Elective opportunities will be made available to the student during his free time in the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify, through research, some particular aspect of drug action. These activities are supervised closely by staff members and oriented as a graduate experience.

Fourth Year

SEMINAR. Pharmacologic Bases of Therapy. A series of two one hour seminars will be held weekly. In these, drug treatment used in a specific case will furnish the focus for the development of a pharmacologic discussion. Emphasis will be on a re-examination of the pharmacologic rationale for a particular therapy. Also students will be directed in searching out essential information on newly introduced medicinals. Members of clinical departments will be invited to participate as often as possible.

Offered during 15 week elective period. Time to be arranged. Registration limited to 12 but not less than 6 students.

RESEARCH. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and biochemical aspects of pharmacology.

Research in clinical pharmacology permits individuals to participate in drug evaluation with emphasis on the design of methods and experiments.

Recommended time: 15 week elective period.

BIOSTATISTICAL SEMINAR. Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

Robert F. Pitts, Professor of Physiology, Chairman

Gerhard H. Giebisch, Professor of Physiology
 Roger L. Greif, Professor of Physiology

Harold G. Hempling, Associate Professor of Physiology
 Richard H. Kessler, Clinical Associate Professor of Physiology

D. Robert Axelrod, Clinical Assistant Professor of Physiology
 Sulamita Balagura, Assistant Professor of Physiology
 Colin Fell, Assistant Professor of Physiology
 Sherman Kupfer, Clinical Assistant Professor of Physiology
 Erich E. Windhager, Assistant Professor of Physiology

Instructor:

Lou Ann Pilkington

Research Fellows:

Emile Boulpaep	Charles Levinson
Douglas Landwehr	George Tanner

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM. Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the department of physiology, but presented in cooperation with the departments of radiology, pathology, microbiology, biochemistry, and medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and

cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES. A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.

2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the department.

PSYCHIATRY

William T. Lhamon, Professor of Psychiatry, Chairman
Francis J. Hamilton, Clinical Professor of Psychiatry
Alexander H. Leighton, Professor of Psychiatry (Social Psychiatry)
Marvin Stein, Professor of Psychiatry

Eric T. Carlson, Clinical Associate Professor of Psychiatry
Helen E. Daniells, Clinical Associate Professor of Psychiatry
Frederic F. Flach, Clinical Associate Professor of Psychiatry
Lawrence E. Hinkle, Jr., Clinical Associate Professor of Medicine in Psychiatry
Richard N. Kohl, Associate Professor of Psychiatry
Dorothea C. Leighton, Clinical Associate Professor of Psychiatry (Social Psychiatry)
James F. Masterson, Jr., Clinical Associate Professor of Psychiatry
Leon L. Rackow, Clinical Associate Professor of Psychiatry
Albert C. Sherwin, Clinical Associate Professor of Psychiatry
Peter E. Stokes, Clinical Associate Professor of Medicine in Psychiatry
Elliott L. Weitzman, Clinical Associate Professor of Psychiatry
Livingston Welch, Clinical Associate Professor of Psychology in Psychiatry

Jason Aronson, Clinical Assistant Professor of Psychiatry
Stuart Ashman, Clinical Assistant Professor of Psychiatry
Farouk F. Faragalla, Assistant Professor of Biochemistry in Psychiatry
Bernard Fisher, Clinical Assistant Professor of Psychology in Psychiatry
Stephen Goodyear, Clinical Assistant Professor of Psychiatry
Lawrence J. Hatterer, Clinical Assistant Professor of Psychiatry
John E. Hughes, Clinical Assistant Professor of Psychiatry
Peter T. Janulis, Clinical Assistant Professor of Psychiatry
Seymour G. Klebanoff, Clinical Assistant Professor of Psychology in Psychiatry
Ludwig G. Laufer, Clinical Assistant Professor of Psychiatry
Alfred B. Lewis, Jr., Clinical Assistant Professor of Psychiatry
Edward Y. Liang, Assistant Professor of Psychiatry
William V. Lulow, Clinical Assistant Professor of Psychiatry
Thomas J. Luparello, Assistant Professor of Psychiatry
Robert S. McCully, Assistant Professor of Psychology in Psychiatry
Paul R. McHugh, Assistant Professor of Neurology in Psychiatry
William K. McKnight, Clinical Assistant Professor of Psychiatry
Stanley T. Michael, Clinical Assistant Professor of Psychiatry
Jane M. Murphy, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)
Fred V. Rockwell, Clinical Assistant Professor of Psychiatry

Raul Schiavi, Assistant Professor of Psychiatry
 Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
 Vernon H. Sharp, Assistant Professor of Psychiatry
 Leonard R. Straub, Clinical Assistant Professor of Psychiatry
 Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry
 Nathaniel Warner, Clinical Assistant Professor of Psychiatry
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry
 William D. Wheat, Clinical Assistant Professor of Psychiatry
 Peter G. Wilson, Clinical Assistant Professor of Psychiatry

Instructors:

Gene M. Abroms	Nicholas Freydenberg
David M. Clayton	Bernard Landis
Catherine H. Fales	

Clinical Instructors:

Edward T. Adelson	Theodore H. Finkle	Edwin R. Ranzenhofer
Arthur A. Anderson, Jr.	Maria Freile Fleetwood	Martha K. Reese
Roderick A. Armstrong	Gerard Fountain	Philip S. Robbins
Ralph D. Baker	Lionel O. Friedman	George Samios
James E. Baxter	Myron L. Glucksman	Nicholas Samios
James W. Brown	Philip S. Herbert	Marilyn R. Scheuing
A. Louise Brush	Francis D. Kane	James H. Spencer
Robert S. Carson	Marilyn G. Karmason	C. Neil Taylor
Charles I. Celian	M. Dorothea Kerr	Nathan Thal
Remo R. Cerulli	Allison B. Landolt	Sylvia G. Traube
Howard N. Cooper	Rene C. Mastrovito	Kenneth F. Tucker
Eleanor Crissey	Lillian E. McGowan	Edward A. Vadeika
Lois B. de Alvarado	John F. McGrath	Traer Van Allen
John R. Delaney	Wayne A. Myers	Morton L. Wadsworth
Thomas L. Doyle, Jr.	Maurice Pachter	Louis Weinstein
Samuel V. Dunkell	Jacques M. Quen	Alden E. Whitney
G. Renee Ferguson		

Research Associates:

Morton Beiser	Robert A. Danley	Sam Korn
Alvin S. Bernstein	Robert Fried	Alice Longaker Nangeroni
Albert N. Browne-Mayers	John S. Harding	William G. Smith

Fellows:

Gerald A. Anderson	Charles D. Casat	Richard M. Sallick
A. Anthony Arce	David J. Gardner	Melvin J. Steinhart
Joseph Arcuri	Herbert M. Glasberg	Michael S. Stockheim
Jewellyn B. Bigelow	George L. Hogben	Katharine Swift
Marvin B. Blitz	Timothy B. Moritz	Zebulon Taintor
Laure Buydens	Anna M. Remler	

Research Fellows:

Marc H. Branchey	Roslyn Hayes
Arline Bronzaft	Kanak Majumder
Charles Friel	Meribeth Simpson

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study

and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR. Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies will be provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION. The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY. Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY. In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK. Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman
 Leona Baumgartner, Clinical Professor of Public Health
 William H. Bradley, Visiting Professor of Public Health
 John R. Heller, Clinical Professor of Public Health
 William T. Ingram, Visiting Professor of Engineering in Public Health
 Edwin D. Kilbourne, Professor of Public Health
 Kiyoshi Konno, Visiting Professor of Public Health

James R. McCarroll, Associate Professor of Public Health

Samuel R. Berenberg, Clinical Assistant Professor of Public Health

Eric J. Cassell, Clinical Assistant Professor of Public Health
 Aaron D. Chaves, Clinical Assistant Professor of Public Health
 Floyd M. Feldmann, Assistant Professor of Public Health
 August H. Groeschel, Assistant Professor of Public Health
 Rene I. Jahiel, Assistant Professor of Public Health
 Ann P. Kent, Clinical Assistant Professor of Public Health
 Robert M. McCune, Assistant Professor of Public Health
 Philip Ollstein, Clinical Assistant Professor of Public Health
 Jerome L. Schulman, Assistant Professor of Public Health
 Melvin S. Schwartz, Assistant Professor of Biometrics in Public Health

Clinical Instructors:

Gladys L. Hobby	David Schottenfeld
William H. Loery	

Research Associates:

Lyon Hyams	Isabel M. Mountain	Doris W. Wolter
Walter Menaker	Julia T. Weld	

Research Fellows:

Michael W. Rytel	Gerard Wijmuller
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The teaching aim of the department of public health is to help increase the students' understanding of disease by the study of those aspects of it that can best be perceived by the study of people in groups. To a considerable extent this involves both the identification of emerging disease problems and the ways they are shaped by the multiple interreactions among heredity, culture, and the physical and biologic environment. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student to apply the knowledge derived from the basic medical sciences and from clinical medicine, to the understanding of the emerging disease problems of the day.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: PARASITOLOGY. The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically undeveloped areas and is given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is head of the tropical disease unit in the department of medicine and has had extensive field experience in the tropics. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include macroscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the two main avenues for the study of disease in man—clinical medicine and epidemiology. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Tuesday, Thursday, Friday afternoon during the first three weeks of the second trimester, a lecture or demonstration is presented from 2 to 3 p.m. and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33 hours.

SECOND YEAR: EPIDEMIOLOGY. Immediately following the course Parasitology (also during the second trimester of the year) a course, Introduction to Epidemiology, is given under the direction of Dr. James McCarroll. Em-

phasis is placed on patterns of disease occurrence and spread in the population, and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR. The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of seven to fourteen students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR. The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP Program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of five seminars are held during each one-half year. Total hours, 14.

Elective Courses

EPIDEMIOLOGY AND INFECTIOUS DISEASES. Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

RADIOLOGY

John A. Evans, Professor of Radiology, Chairman
James J. Nickson, Professor of Radiology
Robert S. Sherman, Clinical Professor of Radiology
Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology
Harry W. Burnett, Associate Professor of Radiology
Robert H. Freiburger, Associate Professor of Radiology
Mordecai Halpern, Associate Professor of Radiology
Ulrich K. Henscke, Clinical Associate Professor of Radiology
Ralph F. Phillips, Clinical Associate Professor of Radiology
Israel Steinberg, Clinical Associate Professor of Radiology

Thane Asch, Assistant Professor of Radiology
Arnold Berrett, Clinical Assistant Professor of Radiology
Eugene Bronstein, Clinical Assistant Professor of Radiology
Florence Chien Hwa-Chu, Clinical Assistant Professor of Radiology
Kuo York Chynn, Assistant Professor of Radiology
F. Mitchell Cummins, Clinical Assistant Professor of Radiology

Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)
 Elizabeth Focht, Assistant Professor of Radiology (Physics)
 Eugene Furth, Assistant Professor of Radiology
 Herman Grossman, Assistant Professor of Radiology
 Arvin Glicksman, Assistant Professor of Radiology
 George Jaspin, Clinical Assistant Professor of Radiology
 Paul J. Killoran, Assistant Professor of Radiology
 Marvin Loring, Assistant Professor of Radiology
 Zuheir Mujahed, Assistant Professor of Radiology
 Nathan Poker, Assistant Professor of Radiology
 Samuel Seal, Clinical Assistant Professor of Radiology
 Henry Selby, Clinical Assistant Professor of Radiology
 Ruth E. Snyder, Clinical Assistant Professor of Radiology
 Harry L. Stein, Assistant Professor of Radiology
 Robin C. Watson, Assistant Professor of Radiology
 Stephen White, Clinical Assistant Professor of Radiology

Instructors:

Eladio Nunez	George Stassa
Samuel Phillips	

Clinical Instructors:

Basil S. Hilaris	Richard C. Packert
James Marquis	Burton Seife

Research Associates:

Edward M. Smith

Fellows:

Alexander Butkiewicz	Lincoln Lum
Frederick Erdman	Nancy Wehner

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately 30 hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

Electives: Fourth Year

(1) **X-RAY CLINICAL CLERKSHIP.** A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) **TECHNIQUE OF FLUOROSCOPY.** Two hours. Limited to six students. Arrangements to be made through the department head.

(3) **GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION.** One month. Limited to six students at any one time.

SURGERY

Frank Glenn, Lewis Atterbury Stimson Professor of Surgery, Chairman
Joseph F. Artusio, Jr., Professor of Anesthesiology in Surgery
Göran C. H. Bauer, Professor of Surgery (Orthopedics)
Herbert Conway, Clinical Professor of Surgery (Plastic)
Cranston W. Holman, Clinical Professor of Surgery
Victor F. Marshall, Clinical Professor of Surgery (Urology)
John M. McLean, Clinical Professor of Surgery (Ophthalmology)
James A. Moore, Clinical Professor of Surgery (Otolaryngology)
S. W. Moore, Clinical Professor of Surgery
Sten-Erik Olsson, Visiting Professor of Surgery (Comparative Orthopedics)
Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)
Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)
Lee R. Straub, Clinical Professor of Surgery (Orthopedics)
T. Campbell Thompson, Clinical Professor of Surgery (Orthopedics)
Preston A. Wade, Clinical Professor of Surgery

William A. Barnes, Clinical Associate Professor of Surgery
Charles L. Burstein, Clinical Associate Professor of Anesthesiology in Surgery
Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)
Eugene E. Clifton, Clinical Associate Professor of Surgery
John R. Cobb, Clinical Associate Professor of Surgery (Orthopedics)
William Cooper, Associate Professor of Surgery (Orthopedics)
William A. Cooper, Clinical Associate Professor of Surgery
Peter Dineen, Clinical Associate Professor of Surgery
John W. Draper, Clinical Associate Professor of Surgery (Urology)
Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)
Edward A. Dunlap, Clinical Associate Professor of Surgery (Ophthalmology)
John H. Eckel, Clinical Associate Professor of Surgery
George F. Egan, Clinical Associate Professor of Surgery (Dentistry)
Helena Gilder, Associate Professor of Surgery (Biochemistry)
Dan M. Gordon, Clinical Associate Professor of Surgery (Ophthalmology)
George R. Holswade, Clinical Associate Professor of Surgery
Richard C. Karl, Associate Professor of Surgery
Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)
Ernest W. Lampe, Clinical Associate Professor of Surgery
Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)
Henry Mannix, Jr., Clinical Associate Professor of Surgery
Benjamin E. Marbury, Clinical Associate Professor of Anesthesiology in Surgery
John H. McGovern, Clinical Associate Professor of Surgery (Urology)
William F. Nickel, Jr., Clinical Associate Professor of Surgery
Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)
S. Frank Redo, Clinical Associate Professor of Surgery

Peter-Cyrus Rizzo, Clinical Associate Professor of Surgery (Orthopedics)
 Bjorn Thorbjarnarson, Clinical Associate Professor of Surgery
 Jean E. Todd, Clinical Associate Professor of Pathology in Surgery
 Marjorie J. Topkins, Clinical Associate Professor of Anesthesiology in Surgery
 Alan Van Poznak, Clinical Associate Professor of Anesthesiology in Surgery
 George E. Wantz, Clinical Associate Professor of Surgery
 John P. West, Clinical Associate Professor of Surgery
 Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)
 Philip D. Wilson, Jr., Clinical Associate Professor of Surgery (Orthopedics)

William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)
 Irving Baras, Clinical Assistant Professor of Surgery (Ophthalmology)
 Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)
 Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)
 Paul W. Braunstein, Clinical Assistant Professor of Surgery
 George N. Cornell, Clinical Assistant Professor of Surgery
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)
 J. Edwin Drew, Clinical Assistant Professor of Surgery
 Edward D. Eanes, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)
 Herbert L. Erlanger, Clinical Assistant Professor of Anesthesiology in Surgery
 Hollon W. Farr, Clinical Assistant Professor of Surgery
 Hilliard E. Firschein, Assistant Professor of Biochemistry in Surgery
 Miles A. Galin, Assistant Professor of Surgery (Ophthalmology)
 Harold Genvert, Clinical Assistant Professor of Surgery
 Edward I. Goldsmith, Clinical Assistant Professor of Surgery
 Dicran Goulian, Jr., Clinical Assistant Professor of Surgery (Plastic Surgery)
 Peter M. Guida, Clinical Assistant Professor of Surgery
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)
 James M. Holman, Clinical Assistant Professor of Surgery (Otolaryngology)
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)
 Allan E. Inglis, Clinical Assistant Professor of Surgery (Orthopedics)
 Bernard Jacobs, Clinical Assistant Professor of Surgery (Orthopedics)
 Jerry Hart Jacobson, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joseph T. Kauer, Clinical Assistant Professor of Surgery
 Edward B. C. Keefer, Clinical Assistant Professor of Surgery
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery
 Russell W. Lavengood, Jr., Clinical Assistant Professor of Surgery (Urology)
 Harvey A. Lincoff, Clinical Assistant Professor of Surgery (Ophthalmology)
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)
 Laurence Miscall, Clinical Assistant Professor of Surgery
 George C. Mueller, Clinical Assistant Professor of Surgery (Otolaryngology)
 James A. Nicholas, Clinical Assistant Professor of Surgery (Orthopedics)
 Arthur J. Okinaka, Clinical Assistant Professor of Surgery
 Russel H. Patterson, Jr., Assistant Professor of Surgery (Neurosurgery)
 John G. Schmidt, Clinical Assistant Professor of Surgery
 Donald M. Shafer, Clinical Assistant Professor of Surgery (Ophthalmology)
 Paul A. Skudder, Clinical Assistant Professor of Surgery
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)
 Stuart S. Snyder, Clinical Assistant Professor of Surgery (Ophthalmology)
 Joel M. Stutman, Assistant Professor of Physical Chemistry in Surgery (Orthopedics)
 Frank J. Veith, Assistant Professor of Surgery

Instructors:

Kenneth R. Barasch	Morris M. Hilf	Bo E. R. Nilsson
Arthur R. Beil, Jr.	Warren W. Koontz	Alan Pavel
Richard M. Bergland	George M. Lacy	John M. Pitman, Jr.
Arnold G. Diethelm	Eugene M. Lance	Donald C. Stahl
Allan R. Dunn	Ralph J. Lewis	William P. Tunell
George D. Griffin	G. Duncan McPherson	Philip H. Zweifach
Maurly L. Hanson	Edward C. Muecke	

Clinical Instructors:

Harlan C. Amstutz
 Jacob Applebaum
 Samuel Avnet
 Howard D. Balensweig
 Raymond G. Barile
 Leonard Biel, Jr.
 Dragan Borovac
 Mitchell Brice II
 Michael Browne
 Anthony Camarda
 Thomas I. Carey
 Robert L. Clarke
 Edward C. Coats
 Elizabeth F. Constantine
 Rudolph C. Dangelmajer
 Robert D. Deans
 Wade Duley
 Charles R. Dunbar
 Francis J. Fadden
 Edgar P. Fleischmann
 William J. Follette
 John L. Fox
 William C. Frederick

Milton Gabel
 Russell O. Gee
 J. Theodore Geiger
 Alexander W. Gotta
 William R. Grafe, Jr.
 Charles K. Hamilton
 Bruce R. Heinzen
 I. David Horwich
 Suzanne A. L. Howe
 Norman E. Hugo
 Ann Huston
 Barnett J. Junker
 Aileen Kass
 John G. Keuhnelian
 Jerome Lawrence
 Louis J. Maggio
 Alfred E. Mamelok
 Peter J. Marchisello
 Mary H. Markham
 Joseph B. Mason
 Charles K. McSherry
 George R. Monahan
 William J. Nelson

John B. Ogilvie
 Patricia M. O'Neil
 Earl A. O'Neill
 Walter L. Peretz
 Walter F. Pizzi
 Thomas D. Rizzo
 Robert W. Schick
 Jerold Schwartz
 Michael Sierp
 Martin Spatz
 David S. Speer
 John F. Struve
 David G. Susman
 Irvin S. Taylor
 Philip S. Voorhees
 Joseph N. Ward
 Jerome R. Weinroth
 Roy C. Wiggins
 John C. Whitsell II
 John R. Williams
 Peter Wei Ting Yu
 Robert B. Zufall

Research Associates:

Ronald W. Gillette

Research Fellows:

Emmanuel Battah
 Rafael Caverio
 Hideo Lucke Masuda

Yoshiji Masuda
 Ahmad Orandi
 Rafael Pola

Takashi A. Suzuki
 Sonao Uchida

Fellows:

Donald W. Abel
 Charles B. Abelson
 Jerry L. Acosta
 George W. Allgair, Jr.
 Janet E. Allgair
 James W. Asaph
 Alegria D. Bahia
 Leslie L. Balasz
 Armando Barreto
 Arthur D. Beck
 Donald F. Brown
 William J. Bruton
 Bruce E. Burnham
 Robert B. Caplan
 Aurelien Carre
 William M. Champion
 Mary Chua
 Richard J. Coburn
 John W. Coleman
 Clifford W. Colwell
 Armand F. Cortese
 George T. Craig
 Gabriel G. Curtis
 Thomas M. Darrigan
 Robert V. Davis, Jr.
 Richard A. Davidson
 Howard M. Eisenberg

James E. Finn
 Elizabeth A. M. Frost
 Sverrir O. Georgsson
 Djamshad Ghatan
 Robert A. Goldstone
 Marshall L. Grode
 Laurence S. Harris
 Edward McG. Hedgepeth, Jr.
 Robert J. Heilen
 Brent J. Holleran
 Nadine S. Hradsky
 O. Adrian Johnson
 Peter L. Laino
 Ferdinand LaVenuta
 Walter J. Lochr
 Melvin G. Lund
 J. Ralph MacFarlane
 Manon G. Manahan
 Kenneth F. Mattucci
 J. Bruce McGovern
 John W. McIvor
 Peter W. McKinney
 Richard H. McShane
 Richard G. Middleton
 Thomas H. Milhorat
 Brian G. Miscall
 Pavanah Modaber

Holland V. Moore
 Benjamin S. Park, Jr.
 John M. Parsons
 Jean Paul Perreault
 Herbert S. Perry
 James D. Prokop
 Bhupinder S. Rana
 J. Richard Rees
 John C. Schiebler
 Cheng-Hock Seah
 Robert P. Sengelmann
 John H. Seward
 Yung Jai Sohn
 Raymond St. Pierre
 John J. Stout, Jr.
 Harold S. Strasser
 William T. Stubenbord
 Michael L. Testa, Jr.
 William S. Tunner
 George M. Watkins
 Dean H. Weaver
 William B. Webber
 Judith Weingram
 Henry G. White
 William A. White
 F. Darwin Zahn

MEMORIAL HOSPITAL

Henry T. Randall, Professor of Surgery

Alexander Brunswick, Clinical Professor of Surgery

Eugene E. Clifton, Clinical Associate Professor of Surgery

Michael R. Deddish, Clinical Associate Professor of Surgery

Joseph H. Farrow, Clinical Associate Professor of Surgery

Joseph G. Fortner, Clinical Associate Professor of Surgery

Edgar L. Frazell, Clinical Associate Professor of Surgery

William S. Howland, Associate Professor of Anesthesiology in Surgery

Walter Lawrence, Jr., Clinical Associate Professor of Surgery

Gordon McNeer, Clinical Associate Professor of Surgery

Theodore R. Miller, Clinical Associate Professor of Surgery

Willet F. Whitmore, Jr., Clinical Associate Professor of Surgery (Urology)

Robert J. Booher, Clinical Assistant Professor of Surgery

Lemuel Bowden, Clinical Assistant Professor of Surgery

C. Paul Boyan, Assistant Professor of Anesthesia in Surgery

William G. Cahan, Clinical Assistant Professor of Surgery

Daniel Catlin, Clinical Assistant Professor of Surgery

Harry Grabstald, Clinical Assistant Professor of Surgery (Urology)

Norman I. Higinbotham, Clinical Assistant Professor of Surgery

Arthur I. Holleb, Clinical Assistant Professor of Surgery

John S. Lewis, Clinical Assistant Professor of Surgery

Lucile Loseke, Clinical Assistant Professor of Surgery

John L. Pool, Clinical Assistant Professor of Surgery

Guy Robbins, Clinical Assistant Professor of Surgery

Olga Schweizer, Assistant Professor of Anesthesiology in Surgery

Reuven Snyderman, Clinical Assistant Professor of Surgery

Maus Stearns, Jr., Clinical Assistant Professor of Surgery

H. Randall Tollefsen, Clinical Assistant Professor of Surgery

Jerome A. Urban, Clinical Assistant Professor of Surgery

Instructors:

Anita H. Goulet

Rita G. Jacobs

Ann H. Miller

Patricia S. Underwood

Clinical Instructors:

Richard D. Brasfield

Donald G. C. Clark

Angelo J. DePalo

James C. DiLorenzo

Alfred A. Fracchia

Frank P. Gerold

John T. Goodner

Charles C. Harrold, Jr.

Ralph E. L. Hertz

John C. Lucas, Jr.

A. Ranald Mackenzie

Ralph C. Marcove

Charles J. McPeak

Oliver S. Moore

Elisabeth P. Pickett

Stuart Quan

Elliott W. Strong

Horace W. Whiteley, Jr.

Fellows:

Frank B. Callipari

Norman M. Canter

Myles P. Cunningham

Ernesto Ego-Aguirre

Gerald J. Francis

Harold P. Freeman

Harry S. Goldsmith

Eugene Karasewich

Frank King

Erick R. Ratzer

Sterling P. Tignor

General Surgery

SECOND YEAR. Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR. In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that

are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR. In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings, clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these

exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

Elective Courses

ANESTHESIOLOGY. Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY. Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY. Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP. Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY. Maximum of four students. Eight weeks course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY. An opportunity is available for one student each period to participate in laboratory and clinical use of the extra-corporeal pump-oxygenator.

ORTHOPEDIC SURGERY. Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY. Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of

research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

IMMUNOLOGY. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

VIROLOGY. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

BIOCHEMISTRY. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

PHYSIOLOGICAL CHEMISTRY. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

All students not registered in Cornell University Graduate School and not registered for the M.D. degree are Special Students.

Such students are *Special Students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

MATRICULATION FEE: \$10

ADMINISTRATION FEE: \$5

Tuition fees vary depending upon the type of work taken. A break-age fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		165			165
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
BIOMETRICS		22			22
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD			352	280	
Lectures			33		665
MEDICAL COMPREHENSIVE CARE †				100	100
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	70	
Lectures			33		
Contagious Disease			18		275
PSYCHIATRY:					
Medical Aspects of Human Behavior	33				
Psychiatry		33	33	42	
Lectures				33	174
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVES HOURS				570	450
TOTALS	1067	980	1250	1710	4821

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 100 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE
1965-66

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Microscopic Anatomy	Developmental Anatomy and Genetics	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Microscopic Anatomy
10-11		Gross Anatomy				
11-12						
12-1			Developmental Anatomy and Genetics			
1-2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry	
2-3	Developmental Anatomy and Genetics	Gross Anatomy		Psychiatry	Developmental Anatomy and Genetics	
3-4	Microscopic Anatomy			Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10		Physiology	Physiology	Physiology		Physiology
10-11	Neuroanatomy	Gross Anatomy	Neuroanatomy	Neuroanatomy	Gross Anatomy	Psychiatry
11-12						
12-1						
1-2	Biochemistry		Free	Biochemistry	Biochemistry	
2-3				Psychiatry		
3-4	Gross Anatomy	Gross Anatomy		Free	Gross Anatomy	
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
10-11						
11-12						
12-1						
1-2						Radio-biology *
2-3	Biochemistry	Physiology	Free	Physiology	Physiology	
3-4						
4-5	Free				Free	

* Multidepartmental course.

SECOND YEAR SCHEDULE
1965-66

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Free	Pathology	Pathology	Pharmacology	Biometrics
10-11						Pharmacology
11-12						
12-1						
1-2	Microbiology					
2-3				Pharmacology		
3-4			Microbiology		Microbiology	
4-5	CPC				Biometrics	

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
9-10	Pharmacology	Free	Pharmacology			Pathology		
10-11	Pathology		Pathology			Pathology	Pharmacology	
11-12								
12-1								
1-2	Microbiology & Parasitology							
2-3			Microbiology & Parasitology	Pharmacology	Microbiology & Parasitology			
3-4								
4-5	CPC			Free				

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Medicine *	Medicine *	Public Health	Psychiatry	
10-11				Medicine *		
11-12						
12-1					Neurology	
1-2						
2-3						
3-4	Medicine *	Free	Medicine *	Medicine *	Medicine *	
4-5						

* Medicine time will be subdivided to provide for: Physical Diagnosis, Introductory Medicine, Neurology, and Clinical Pathology.

THIRD YEAR SCHEDULE
1965-66

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2						
2-3			Free			
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS)
PEDIATRICS

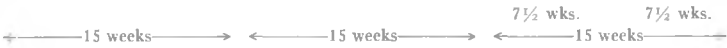
<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2						
2-3						
3-4	Pediatrics	Pediatrics	Free	Pediatrics		
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS)
OBSTETRICS AND GYNECOLOGY, PSYCHIATRY,
PUBLIC HEALTH, CONTAGIOUS DISEASES

<i>Hours</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3						
3-4		Psychiatry	Free	Psychiatry	Pb. Hl.	
4-5	C.P.C.					

FOURTH YEAR SCHEDULE
JUNE 21 to MAY 27

I.	AMBULATORY CARE		(c) SURGERY OB.	(d) OB. SURGERY	ELECTIVE	
II.	(a) SURGERY OB.	(b) OB. SURGERY	ELECTIVE		AMBULATORY CARE	
III.	ELECTIVE		AMBULATORY CARE		(e) SURGERY OB.	(f) OB. SURGERY



Sections I, II, and III
Divisions of Surgery and Ob.—a through f

GRADUATE SCHOOL OF MEDICAL SCIENCES

The opportunity for graduate work leading to advanced general degrees was first offered in the Medical College in 1912 in cooperation with the Graduate School of Cornell University. By agreement dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College. This expansion of the New York City component of the Graduate School resulted in the establishment in January, 1952, of the Graduate School of Medical Sciences which, with the approval of the faculty of the Graduate School of Cornell University, was given the full responsibility for administrative matters related to the advanced general degrees granted for study in residence at the New York City campus of Cornell University.

The general degrees of Ph.D. and M.S. are awarded for advanced study and scholarly, independent research in the fields of anatomy, applied mathematics, biochemistry, biophysics, immunology, microbiology, pathology, pharmacology, physiology, public health, and preventive medicine.

The facilities for graduate work at the Graduate School of Medical Sciences include those of the Medical College previously described in this Announcement and of the Sloan-Kettering Division described below. For further details on course offerings, refer to the *Announcement of the Graduate School of Medical Sciences*.

SLOAN-KETTERING DIVISION

Under the agreement mentioned above, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

REPRESENTATIVES OF MEMORIAL HOSPITAL

John M. Walker

B. Brewster Jennings

REPRESENTATIVES OF SLOAN-KETTERING INSTITUTE

Warren Weaver

Frank L. Horsfall, Jr.

REPRESENTATIVES OF CORNELL UNIVERSITY

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees

James Alfred Perkins, President of the University

REPRESENTATIVES OF THE SOCIETY OF THE NEW YORK HOSPITAL

Francis Kernan

Frederick K. Trask

The facilities of the Sloan-Kettering Division consist of the Howard Laboratory, 410 East 68th Street, and the Kettering Laboratory, 425 East 68th Street, New York City; and the Walker Laboratory, 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. Both the Howard and Kettering Laboratories are in direct connection with two hospitals: Memorial Hospital, a voluntary institution of 380 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds.

The training offered in this Division is primarily for students working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences, but not in any of the clinical fields.

BIOCHEMISTRY

Aaron Bendich, Professor of Biochemistry
 Oscar Bodansky, Professor of Biochemistry
 George B. Brown, Professor of Biochemistry
 Liebe F. Cavalieri, Professor of Biochemistry
 Jack J. Fox, Professor of Biochemistry
 C. Chester Stock, Professor of Biochemistry

M. Earl Balis, Associate Professor of Biochemistry
 Ralph K. Barclay, Associate Professor of Biochemistry
 Saul Green, Associate Professor of Biochemistry
 Mary L. Petermann, Associate Professor of Biochemistry
 Morton K. Schwartz, Associate Professor of Biochemistry
 Martin Sonenberg, Associate Professor of Biochemistry
 Helen Q. Woodard, Associate Professor of Biochemistry

Ellen Borenfreund, Assistant Professor of Biochemistry
 John F. Codington, Assistant Professor of Biochemistry
 Alfredo Giner-Sorolla, Assistant Professor of Biochemistry
 Dietrich Hoffmann, Assistant Professor of Biochemistry
 Samuel S. Koide, Assistant Professor of Biochemistry
 Willi Kreis, Assistant Professor of Biochemistry
 Samuel J. Levin, Assistant Professor of Biochemistry
 Jerome S. Nisselbaum, Assistant Professor of Biochemistry
 Josephine S. Salser, Assistant Professor of Biochemistry
 Vladimir P. Skipski, Assistant Professor of Biochemistry

Instructors:

Mary G. Hamilton Sylvia Lee-Huang
 Barbara H. Rosenberg

Intensive study is offered in the fields of enzymology, bio-organic chemistry, molecular biology, and metabolism of proteins and nucleic acids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, organic chemistry, physics (mechanics, electricity and magnetism, and sound,

heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

Frank L. Horsfall, Jr., Professor of Microbiology
 Frederick S. Philips, Professor of Pharmacology
 George W. Woolley, Professor of Biology

Etienne De Harven, Associate Professor of Biology
 Charlotte Friend, Associate Professor of Microbiology
 Peter J. Gomatos, Associate Professor of Microbiology
 Dorris J. Hutchison, Associate Professor of Microbiology
 William L. Money, Associate Professor of Biology
 Alice E. Moore, Associate Professor of Biology
 H. Christine Reilly, Associate Professor of Microbiology

June L. Biedler, Assistant Professor of Biology
 Edward S. Essner, Assistant Professor of Biology
 Wilbur F. Noyes III, Assistant Professor of Biology
 Lloyd J. Old, Assistant Professor of Biology
 Herbert S. Schwartz, Assistant Professor of Pharmacology
 Francis M. Sirotnak, Assistant Professor of Microbiology
 Morris N. Teller, Assistant Professor of Biology

Instructors:

Alberta M. Albrecht	Louis Kaplan
James G. Cappuccino	George Sichuk

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, cytology, genetics, immunology, and virology. A brief specialized course is offered in the chemotherapy of cancer for physicians and research workers in October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), mathematics (through calculus), general biology or general zoology or general botany, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

John S. Laughlin, Professor of Biophysics

Edward R. Epp, Assistant Professor of Biophysics
 Harold Moroson, Assistant Professor of Biophysics
 Ira Pullman, Assistant Professor of Biophysics

Instructors:

Karin R. Corey
Peter J. Kenny

Louis Zeitz

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiological physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiological physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radioisotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of the metabolism of various isotope-labeled compounds in man; metabolism of biologically important compounds in tissue cultures of human tumor cells, in bacteria, and viruses; the mechanism of radiation action on bacteria, phage, yeast, and small animals, including metabolic studies with human and other tumors influenced by radiation under different environmental conditions; trace element analysis of tissue sections by means of fluorescent x-ray spectrometers; electron spin resonance spectroscopy of free radicals in carcinogenic and irradiated compounds; the measurement of radiation by calorimetric, radiation-chemical ionization, crystal and solid-state detectors; study of the early radiation-induced processes in cells using high intensity pulsed irradiation techniques.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. Undergraduate courses in quantitative analysis, physical and organic chemistry, biology, and physiology are also required as prerequisites for graduate courses in biochemistry and cell physiology. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

Gilbert Dalldorf, Professor of Pathology, Emeritus
Frank W. Foote, Jr., Professor of Pathology
Fred W. Stewart, Professor of Pathology, Emeritus

Jørgen E. Fogh, Associate Professor of Pathology
Leopold G. Koss, Associate Professor of Pathology
Stephen S. Sternberg, Associate Professor of Pathology

John W. Berg, Assistant Professor of Pathology
Charles P. Miles, Assistant Professor of Pathology

Special facilities are available for investigation in quantitative cytology

and cellular pathology by newer optical methods, cytophysical methods including radioautography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

Leo Wade, Associate Professor of Preventive Medicine

Ernest L. Wynder, Associate Professor of Preventive Medicine

Genevieve M. Bader, Assistant Professor of Preventive Medicine

Instructor:

Elaine G. Diacumakos

The department offers opportunities for research in human genetics and in the epidemiology of cancer. Research and training can also be arranged in the laboratory aspects of the biological testing and chemical analysis of environmental agents. Programs in these fields can be organized with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

INTERNSHIP APPOINTMENTS *

CLASS OF 1965

Adler, Jonathan L.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Alberg, Stephen B.	Med.	Mount Sinai Hospital, New York, N.Y.
Baden, James P.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Bancoff, Carl	Rot.	Philadelphia General Hospital, Philadelphia, Pa.
Bistrrian, Bruce R.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Boccia, Joseph A.	Path.	University of Kansas Medical Center, Kansas City
Bourlier, Peter F.	Med.	Jersey City Medical Center, Jersey City, N.J.
Caronna, John J.	Med.	The New York Hospital, New York, N.Y.
Catanzaro, Philip J.	Path.	University of Kansas Medical Center, Kansas City
Cohen, Barry A.	Rot.	Jackson Memorial Hospital, Miami, Fla.
Cohen, Lawrence	Rot.	USAF Hospital, San Antonio, Texas
Davis, James N.	Mx.-M	Bellevue Hospital, 2nd Division, New York, N.Y.
Dennis, David T.	Mx.-M, S	San Francisco General Hospital, San Francisco, Calif.
Dickerman, Joseph D.	Ped.	Children's Medical Center, Dallas, Texas
Dietz, Richard F.	Med.	Georgetown University Hospital, Washington, D.C.
Eberhard, Edward J.	Rot.	Walter Reed General Hospital, Washington, D.C.
Ehrensing, Rudolph H.	Med.	University of Virginia, Charlottesville, Va.
Eilers, Anton F.	Surg.	USPHS Hospital, San Francisco, Calif.
Ellison, Richard A.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Errico, Michael J.	Surg.	St. Vincent's Hospital, New York, N.Y.
Eurenus, Karl	Med.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Fallon, Edmund F.	Med.	Albany Medical Center, Albany, N.Y.
Farina, James R.	Rot.	University of Oregon Hospitals, Portland, Ore.
Fischbach, Gerald D.	Med.	University of Washington Hospitals, Seattle, Wash.
Fortuin, Nicholas J.	Med.	Johns Hopkins Hospital, Baltimore, Md.
Fratantoni, Joseph C.	Med.	The New York Hospital, New York, N.Y.
Geiger, Ronald H.	Surg.	University of Calif. Hospitals, San Francisco, Calif.
Glenn, John S.	Mx.-M	University Hospitals, Madison, Wisc.
Goodman, Anthony A.	Surg.	University Hospitals, Ann Arbor, Mich.
Gordon, Jeffrey H.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Gottlieb, Robert J.	Med.	The New York Hospital, New York, N.Y.
Greminger, Richard F.	Surg.	University Hospitals, Ann Arbor, Mich.
Guerrero, Richard L.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Gwynn, Robert E.	Med.	The New York Hospital, New York, N.Y.
Hardy, George E., Jr.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Hirata, Richard M.	Rot.	Walter Reed General Hospital, Washington, D.C.
Ives, John O.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Kammerer, William S.	Med.	Charity Hospital, Tulane Division, New Orleans, La.
Kappler, Gustav E. III	Surg.	Medical College of Virginia, Richmond, Va.
Katzin, Dick	Mx.-M, S	Allegheny General Hospital, Pittsburgh, Pa.
Kaye, Jeremy J.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Kayser, Edwin A., Jr.	Rot.	University of Oregon Hospitals, Portland, Ore.
Kenton, Edgar J. III	Med.	Jefferson Hospital, Philadelphia, Pa.
Kohn, Thomas E.	Med.	University of Calif. Hospitals, Los Angeles, Calif.
Kunz, Harold G., Jr.	Surg.	The New York Hospital, New York, N.Y.
LaFiandra, Robert P.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Landeen, Jon L.	Mx.-S.	University Hospitals, Madison, Wisc.
Levitt, Lawrence P.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Lynn, Morton D.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
McAfee, Laurice L.	Med.	Baltimore City Hospitals, Baltimore, Md.
McCabe, William P.	Surg.	Boston City Hospital, B. U. Division, Boston, Mass.
McQuarrie, Irvine G.	Surg.	The New York Hospital, New York, N.Y.
Meyer, Jack E.	Mx.-M, S	San Francisco General Hospital, San Francisco, Calif.
Morrissey, Kevin P.	Surg.	The New York Hospital, New York, N.Y.
Nye, Charles E.	Rot.	King County Hospital, Seattle, Wash.
Oliver, Caldwell H., Jr.	Surg.	The New York Hospital, New York, N.Y.

Palmieri, Michelle G.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Pavan, Deborah R.	Med.	Presbyterian Hospital, New York, N.Y.
Pezzulich, Robert A.	Surg.	The New York Hospital, New York, N.Y.
Redler, Lance D.	Med.	The New York Hospital, New York, N.Y.
Rothman, Lewis M.	Mx-M	Bellevue Hospital, 1st Division, New York, N.Y.
Samuelson, Paul L.	Med.	Georgetown University Hospital, Washington, D.C.
Schiele, Howard P.	Rot.	Letterman General Hospital, San Francisco, Calif.
Schwartz, Richard A.	Rot.	Philadelphia General Hospital, Philadelphia, Pa.
Schweizer, Robert D.	Rot.	USAF Hospital, San Antonio, Texas
Segaul, Robert M.	Surg.	The New York Hospital, New York, N.Y.
Seventko, Joseph M.	Rot.	USN, Camp Pendleton, Calif.
Sewall, Steven H.	Surg.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Shappell, Stephen D.	Med.	King County Hospital, Seattle, Wash.
Stephens, Dennis H.	Rot.	Latter-day Saints Hospital, Salt Lake City, Utah
Stewart, Richard P.	Med.	Upstate Medical Center, Syracuse, N.Y.
Swift, Thomas R.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Swiller, Hillel I.	Rot.	San Francisco General Hospital, San Francisco, Calif.
Thurber, Charles F.	Mx.	University of Kansas Medical Center, Kansas City
Toaz, Elinor	Med.	University of Illinois Hospitals, Chicago, Ill.
Tomaz, Frank A.	Med.	Bellevue Hospital, 2nd Division, New York, N.Y.
Towers, Robert J.	Rot.	King County Hospital, Seattle, Wash.
Tsairis, Peter	Med.	Georgetown University Hospital, Washington, D.C.
Ward, Betty A.	Mx-S.	University of Maryland Hospital, Baltimore, Md.
Westbrook, Edward L.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Wilson, Donald W.	Surg.	University Hospitals of Cleveland, Cleveland, Ohio
Yeager, Anne S.	Ped.	Children's Medical Center, Seattle, Wash.
Young, Robert C.	Med.	The New York Hospital, New York, N.Y.

CLASS OF 1964

Omura, Emily F. Mx-M Roosevelt Hospital, New York, N.Y.

* Symbols: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1965–1966

FOURTH YEAR

Carmine Bedotto, A.B. 1962, Brown University	Hallandale, Fla.
Randall William Bell, B.S. 1959, United States Military Academy	Bronx, N.Y.
John Arthur Boothby, A.B. 1962, Cornell University	Wynnewood, Pa.
Richard Arthur Borrison, B.S. 1961, Allegheny College	Natrona Heights, Pa.
Paul David Bostrom, A.B. 1962, Princeton University	Dover, N.J.
James Wesley Bryan, B.S. 1962, Stanford University	Mission, Kansas
James Augustine Burns, B.S. 1961, Manhattan College	New York, N.Y.
Laurence David Carnay, A.B. 1962, Hamilton College	New York, N.Y.
Alexander Soutar Carney, A.B. 1962, Yale University	Irvington, N.Y.
John Joseph Carthy, B.S. 1962, Fordham University	New York, N.Y.
Paul Stuart Clark, A.B. 1962, Princeton University	Fayetteville, N.Y.
James Franklin Corcoran, B.S. 1958, United States Military Academy	New York, N.Y.
Robert Emmet Curran, A.B. 1962, College of the Holy Cross	Rockville Centre, N.Y.
Andrew Albert Dahl, A.B. 1962, Wesleyan University	Poughkeepsie, N.Y.
J. Thomas Davidson, A.B. 1962, Colgate University	Lansing, Mich.
Peter John DeBell, A.B. 1962, Oberlin College	Passaic, N.J.
John English Deitrick, Jr., A.B. 1962, Princeton University	Bronxville, N.Y.
John Donovan Denney, A.B. 1962, University of Washington	Everett, Wash.

112 REGISTER OF STUDENTS

Michael Henry Dosik, A.B. 1962, Cornell University	New York, N.Y.
Patricia Downs, A.B. 1962, Colby College	Bronxville, N.Y.
Francis Joseph Duggan, Jr., B.S. 1962, Fordham University	Margaretville, N.Y.
Michael Preston Earnest, A.B. 1962, Cornell University	Youngstown, N.Y.
Robert Michael Farrell, B.S. 1962, St. John's University	Flushing, N.Y.
Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross	Brooklyn, N.Y.
Richard Howard Fine, A.B. 1962, Cornell University	Cincinnati, Ohio
John Edward Franklin, A.B. 1961, Williams College	New York, N.Y.
David Gray Fraser, A.B. 1962, Stanford University	New York, N.Y.
Lynn Miller Gaufin, B.S. 1963, University of Utah	Midvale, Utah
Robert Dennis Geller, B.Met.E. 1962, New York University	Beechhurst, N.Y.
Michael Alan Goodfriend, A.B. 1962, Princeton University	Montrose, N.Y.
Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute	New York, N.Y.
John Richard Graybill, A.B. 1962, Cornell University	Abington, Pa.
Samuel Harold Greenblatt, B.A. 1961, Cornell University;	
M.A. 1964, Johns Hopkins University	Potsdam, N.Y.
Price Gripekoven, B.A. 1962, Williams College	Bronxville, N.Y.
David Hunt Gundy, A.B. 1962, Dartmouth College	Rye, N.Y.
Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College	Closter, N.J.
Ian Morgan Happer, B.S. 1962, University of North Carolina	Lenior, N.C.
Richard Anthony Hodder, A.B. 1962, University of Notre Dame	Yonkers, N.Y.
Robert Daniel Hoeldtke, B.A. 1962, Amherst College	Buffalo, N.Y.
Orne Scott Hume, B.S. 1962, Queens College	New York, N.Y.
Mark Hiram Kaplan, A.B. 1962, Cornell University	Brooklyn, N.Y.
Harry David Kearing, A.B. 1959, Cornell University	Binghamton, N.Y.
Harry George Lee, A.B. 1962, Williams College	Short Hills, N.J.
Jay Stauffer Lehman, A.B. 1962, Amherst College	Ardmore, Pa.
Stuart Euster Levin, A.B. 1962, Cornell University	Cincinnati, Ohio
Richard Uscher Levine, B.S. 1962, Tufts University	West Englewood, N.J.
Roger Kenneth Lewis, B.A. 1961, University of Florida	West Palm Beach, Fla.
Michael Laurence Lichtig, A.B. 1962, Cornell University	Rumson, N.J.
I. Ira Mason, B.A. 1962, Columbia University	Bronx, N.Y.
Herbert Odell Mathewson, A.B. 1962, Cornell University	Pelham, N.Y.
James J. McSweeney, Jr., A.B. 1962, Cornell University	Lynn, Mass.
Glenn Adair Meltzer, B.A. 1962, Clark University	Worcester, Mass.
Anthony Wayne Middleton, Jr., B.S. 1963, University of Utah	Salt Lake City, Utah
Irving William Olender, A.B. 1962, Cornell University	Amsterdam, N.Y.
David Michael Ozonoff, B.S. 1962, University of Wisconsin	Milwaukee, Wisc.
Jacqueline Gail Parthemore, A.B. 1962, Wellesley College	Narbeth, Pa.
Arnold Eugene Postlethwaite, A.B. 1962, West Virginia University	New Martinsville, W.Va.
Kenneth Ned Rankin, A.B. 1962, Dartmouth College	Cleveland, Ohio
Donald Laurence Resnick, A.B. 1962, Hamilton College	New Rochelle, N.Y.
Morris Mark Richman, A.B. 1962, Cornell University	Philadelphia, Pa.
Stewart Samuel Richmond, B.A. 1962, Amherst College	Concord, N.H.
Donald Allen Roberts, B.S. 1962, Washington State University	Richland, Wash.
Terry Reid Rogers, B.A. 1961, Dartmouth College	Bernardsville, N.J.
Rabin Manlunas Sarda, B.S. 1962, University of the Phillipines	Brooklyn, N.Y.
Paul Frederick Schellhammer, B.S. 1962, University of Notre Dame	Larchmont, N.Y.
Carl Frederick Schiller, B.S. 1962, Yale University	Hershey, Pa.
Steven Kalman Secunda, A.B. 1962, Harvard University	West Newton, Mass.
Mark Melvin Sherman, A.B. 1962, Clark University	Worcester, Mass.
Garry Lee Smith, B.S. 1962, University of Oklahoma	Tulsa, Okla.
John Quinn Stauffer, A.B. 1962, Princeton University	Petersburg, W.Va.
Arthur Harold Stein, A.B. 1962, Harvard University	Norfolk, Va.
Susan Cobb Stewart, B.A. 1962, Smith College	Cleveland, Ohio
Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College	Jefferson City, Mo.

Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University	San Diego, Calif.
Gerald Roman Sydorak, A.B. 1963, Cornell University	New York, N.Y.
David Neil Tucker, B.S. 1963, Tufts University	Great Neck, N.Y.
John Chapman Urbaitis, B.S. 1962, Allegheny College	Warren, Pa.
Laura Ureta, A.B. 1961, Laval University	Queens, N.Y.
John Reed Welch, B.A. 1961, University of Arizona	Tucson, Ariz.
John Price Witwer, B.A. 1962, Amherst College	Radnor, Pa.
David Frank Wood, A.B. 1962, Brown University	Lyons, N.Y.
Frank James Zlatnik, B.A. 1962, Carleton College	Two Rivers, Wisc.

THIRD YEAR

Robert Powers Ainsworth, B.E. 1962, Yale University	Columbus, Ohio
William John Conrad Amend, Jr., B.A. 1963, Amherst College	Wilmington, Del.
Judith Lois Axelrod, A.B. 1963, Wellesley College	Clinton, Mass.
Robert Joseph Binder, B.A. 1963, Williams College	West Englewood, N.J.
Joseph Patrick Bohan, B.S. 1963, Manhattan College	New York, N.Y.
Richard Joseph Castiello, B.A. 1963, Williams College	Bethesda, Md.
David Rubin Chipkin, B.S. 1963, Dickinson College	Flushing, N.Y.
Francis Vincent Chisari, A.B. 1963, Fordham University	Bronxville, N.Y.
Orlo Herrick Clark, A.B. 1963, Cornell University	Nutley, N.J.
Cal K. Cohn, A.B. 1963, Columbia University	New York, N.Y.
Richard Charles Connors, B.A. 1963, Holy Cross	Worcester, Mass.
James John Crossley, A.B. 1963, Princeton University	Watertown, N.Y.
Kermit Wayne Dewey, A.B. 1963, Cornell University	Malone, N.Y.
Dean Stuart Edell, A.B. 1963, Cornell University	New York, N.Y.
Ronald Charles Eggert, A.B. 1963, Dartmouth College	Riverside, Conn.
Albert Brooks Einstein, Jr., A.B. 1963, Princeton University	Baltimore, Md.
Robert Stephan Ennis, A.B. 1963, Columbia University	Whitestone, N.Y.
Frank Owen Evans, Jr., B.S. 1963, Washington & Lee University	Milledgeville, Ga.
Yale Lloyd Fisher, A.B. 1964, Cornell University	Glen Rock, N.J.
Paul Francis Foraste, Jr., A.B. 1962, College of the Holy Cross	Scarsdale, N.Y.
John Halm Galla, B.S. 1958, United States Naval Academy	Bridgeport, Conn.
John Alan Grossman, A.B. 1963, Princeton University	New York, N.Y.
Paul Leonard Gunderson, B.S. 1963, Wheaton College	Muscataine, Iowa
Sandra Lynn Gustafson, A.B. 1962, Wellesley College	Worcester, Mass.
Charles Hennekens, B.S. 1963, Queens College	New York, N.Y.
John Jacob Hill, A.B. 1963, San Diego State College	La Mesa, Calif.
William Vincent Hindle, Jr., A.B. 1963, Dartmouth College	Cranston, R.I.
Anita Hollmer Hodson, B.S. 1961, M.S. 1963, Cornell University	Ithaca, N.Y.
William Russel Hunt, A.B. 1963, Harvard University	Poplar, Montana
William Michael Kamell, B.S. 1963, St. Peter's College	Jersey City, N.J.
Robert Allen Charles Kaye, A.B. 1963, Drew University	Morristown, N.J.
Gerald Thomas Keegan, B.S. 1963, St. Peter's College	Jersey City, N.J.
Frederick Karl Kirchner, Jr., B.S. 1963, Dickinson College	Delmar, N.Y.
James Allen Krick, B.A. 1962, Amherst College	Washington, D.C.
Robert Tulloch Lacy, A.B. 1963, Yale University	Denvon, Pa.
Robert Lewis Lesser, B.S. 1963, Queens College	Flushing, N.Y.
Bruce Malcolm Lidston, B.S. 1963, Lebanon Valley College	Old Tappan, N.J.
Richard Michael Lumiere, A.B. 1963, Cornell University	Dalton, Ga.
John Leon Marquardt, A.B. 1963, John Carroll University	Lakewood, Ohio
Kenneth Maurice Matchett, Jr., B.S. 1963, Stanford University	Grand Junction, Colo.
Kimball Ivan Maull, A.B. 1963, University of Virginia	Union, N.Y.
Ira Mehlman, A.B. 1963, Princeton University	Brooklyn, N.Y.
Mark Harold Miller, A.B. 1963, Cornell University	Meadville, Pa.
William David Miller, A.B. 1963, Cornell University	Williamsville, N.Y.
Susan Carol Moss, A.B. 1963, Cornell University	Flushing, N.Y.
Richard Stuart Muchnick, A.B. 1963, Cornell University	Brooklyn, N.Y.

- Steven Anthony Muller, B.Ch.E. 1963, Cornell University
 Charles Ronald Nicolosi, B.S. 1963, Manhattan College
 Neil Francis O'Donohue, B.S. 1963, Fordham College
 Michael Oliphant, A.B. 1963, Columbia University
 Lawrence William Osborn, B.A. 1963, Amherst College
 David Michael Ozonoff, B.S. 1962, University of Wisconsin
 David Allan Parker, A.B. 1963, Harvard University
 Charles Alfred Peterson, A.B. 1961, Dartmouth College;
 M.F. 1963, Yale University
 Paul Edwin Pierce, A.B. 1963, Northwestern University
 Rowland Walker Pritchard, A.B. 1962, Dartmouth College
 Robert Paul Radin, B.A. 1962, University of Virginia
 Arthur Charles Rettig, Jr., A.B. 1963, Yale University
 Thomas William Revak, A.B. 1960, Cornell University
 Delbert Glen Ririe, B.S. 1964, University of Utah
 John Patrick Rooney, B.S. 1963, John Carroll University
 Steven Leonard Rosen, A.B. 1963, Harvard University
 William Leslie Rutherford, A.B. 1963, Stanford University
 Christopher Dyer Saudek, A.B. 1963, Harvard University
 Donald Allen Schlernitzauer, A.B. 1963, Cornell University
 Robert Gary Schwager, A.B. 1963, University of Virginia
 Philip Edward Schweitzer, A.B. 1963, College of the Holy Cross
 Robert Willard Scott, B.S. 1963, Ohio State University
 Stephen Robert Severance, Cornell University
 John Henry Shenasky II, A.B. 1963, Cornell University
 Bruce Duncan Simonds, B.S. 1963, Cornell University
 William Patrick Soles, A.B. 1963, University of Utah
 Frederick Peter Spin, A.B. 1963, Columbia University
 William Robert Stiles, A.B. 1963, Harvard University
 Paul Hendrick Sugarbaker, B.S. 1963, Wheaton College
 Mark Lewis Teitelbaum, A.B. 1963, Williams College
 George Gregory Telesh, A.B. 1962, Cornell University
 John Michael Thorp, B.S. 1962, University of Rhode Island
 Edward Tsou, A.B. 1963, Rutgers University
 Anthony Paul Turel, Jr., A.B. 1963, Cornell University
 George Michael Uhran, B.S. 1963, Fordham University
 Nicholas Joseph Vianna, B.S. 1963, St. Peter's College
 H. James Wedner, A.B. 1963, Cornell University
 Burton Carey West, B.A. 1963, Amherst College
 James Burnham Wirth, A.B. 1963, Cornell University
 Dennis Watkins Wise, B.S. 1961, Wheaton College
 Russell Rudolph Zelko, A.B. 1962, Cornell University
- Delmar, N.Y.
 New York, N.Y.
 Brooklyn, N.Y.
 New York, N.Y.
 Shaker Heights, Ohio
 Milwaukee, Wisc.
 Rochester, N.Y.
 Hamilton, Mont.
 Alton, Ill.
 Stamford, Conn.
 Yonkers, N.Y.
 Muncie, Ind.
 Mt. Carmel, Pa.
 Salt Lake City, Utah
 Stamford, Conn.
 Brighton, Mass.
 Peoria, Ill.
 Bronxville, N.Y.
 Bellaire, Ohio
 Brooklyn, N.Y.
 Pelham, N.Y.
 Scarsdale, N.Y.
 Brecksville, Ohio
 Clarksburg, W.Va.
 Beloit, Wisc.
 Oren, Utah
 Brooklyn, N.Y.
 Evanston, Ill.
 Jefferson City, Mo.
 Hewlett, N.Y.
 Clifton, N.J.
 Centerdale, R.I.
 New York, N.Y.
 Kingston, Pa.
 Flushing, N.Y.
 New York, N.Y.
 Pittsburgh, Pa.
 New York, N.Y.
 New Milford, N.J.
 Warren, Ohio
 Bethlehem, Pa.

SECOND YEAR

- Edward Philip Ambinder, A.B. 1964, Princeton University
 Arnold Elle Andersen, A.B. 1964, Cornell University
 Jeffrey Mark Applestein, A.B. 1964, Duke University
 Gabrielle Arakelian, B.A. 1964, Wellesley College
 Oreste Joseph Arcuni, B.S. 1964, Fordham College
 Michael Stuart Balis, Franklin & Marshall College
 John Earle Barnes, A.B. 1962, Stanford University
 Alfred Sidney Barritt III, A.B. 1964, College of the Holy Cross
 Joseph Victor Battista, Jr., A.B. 1964, Princeton University
 Robert Forrest Bedford, A.B. 1964, Princeton University
 George Ellis Berkowitz, A.B. 1964, Princeton University
 Thomas Dwight Bird, A.B. 1964, Dartmouth College
 William Warner Brockman, B.S. 1964, Cornell University
 Stuart Tait Brown, A.B. 1964, Dartmouth College
 David Hoogner Calder, A.B. 1964, Dartmouth College
 Harold Ernest Carlson, B.S. 1964, Rensselaer Polytechnic Institute
- Bronxville, N.Y.
 Brooklyn, N.Y.
 Trenton, N.J.
 New Canaan, Conn.
 New York, N.Y.
 Maplewood, N.J.
 Rolling Hills, Calif.
 Brooklyn, N.Y.
 Mountain Lakes, N.J.
 Mountain Lakes, N.J.
 Philadelphia, Pa.
 Lancaster, Pa.
 Dobbs Ferry, N.Y.
 Lemont, Ill.
 Wyckoff, N.J.
 Falconer, N.Y.

Arlan Avrom Cohen, B.A. 1964, Columbia University	Brooklyn, N.Y.
Robert Chaplin Collins, B.A. 1964, University of California (Berkley)	Los Angeles, Calif.
George Cooper IV, B.A. 1964, Williams College	Charlottesville, Va.
Lois Jacqueline Copeland, A.B. 1964, Cornell University	Woodcliff Lake, N.J.
Anthony Gaetano Coscia, B.S. 1964, Fordham University	New York, N.Y.
John Thomas Daly, B.S. 1964, Manhattan College	New York, N.Y.
James Henry Dauber, B.E.P. 1964, Cornell University	New York, N.Y.
Steven Allen Dressner, B.A. 1964, Gettysburg College	Great Neck, N.Y.
Enobong Asukwo Ekong, A.B. 1964, Wittenberg University	Uyo, E. Nigeria
Howard Lee Feldman, A.B. 1964, Princeton University	Plainfield, N.J.
John Emerson Feldmann, B.S. 1964, Georgetown University	West Orange, N.J.
Paul Robert Goldstein, A.B. 1964, Cornell University	New York, N.Y.
Edward Leo Goodman, A.B. 1964, Cornell University	Columbus, Ohio
Jerold Bruce Graff, A.B. 1964, Princeton University	Verona, N.J.
David Greene, A.B. 1964, Colby College	New York, N.Y.
Michael Thomas Gyves, B.S. 1964, Fordham University	New York, N.Y.
James Bradley Haddock, B.S. 1964, Bowdoin College	Auburn, Maine
Terry Wilnot Hensle, B.A. 1964, University of Pennsylvania	Hackensack, N.J.
Robert Port Herwick, Jr., A.B. 1964, Cornell University	Basking Ridge, N.J.
Sidney Heumann, A.B. 1964, Columbia University	Brooklyn, N.Y.
Stuart Holden, B.S. 1964, University of Wisconsin	Freeport, N.Y.
Alfred Louis Horowitz, A.B. 1964, Dartmouth College	Chicago, Ill.
Creig Simmons Hoyt, B.A. 1964, Amherst College	Pittsburgh, Pa.
Stephen Lee Jaffe, B.A. 1964, Purdue University	Scarsdale, N.Y.
Leland Paul Johnson, B.A. 1964, University of Utah	Salt Lake City, Utah
Henry Jerrold Kaplan, A.B. 1964, Columbia University	New York, N.Y.
Robert Mace Kass, B.A. 1964, Kenyon College	Woodmere, N.Y.
Robert Van Allen Ketchum, A.B. 1964, Cornell University	Forest Hills, N.Y.
William Claude Klingensmith III, A.B. 1964, Cornell University	New Kensington, Pa.
James Howard Kocsis, B.A. 1964, Amherst College	Harwinton, Conn.
Robert Edmunds Koehler, Jr., B.A. 1964, Johns Hopkins University	Milwaukee, Wis.
Katherine Stanton Lane, B.A. 1964, Trinity College	Westfield, N.J.
John Walter Larsen, A.B. 1964, Dartmouth College	Ridgewood, N.J.
Michael Martin Lewis, B.A. 1964, Tufts University	Great Neck, N.Y.
John Edward Madsen, Jr., A.B. 1964, University of North Carolina	Plainfield, N.J.
Robert Steven Marcus, A.B. 1964, Columbia University	New York, N.Y.
Ellen Elizabeth Marks, Cornell University	Wallingford, Pa.
David Peter McCormick, A.B. 1964, Harvard University	Watertown, N.Y.
William Scott McDougal, A.B. 1964, Dartmouth College	Grand Rapids, Mich.
John George Meharg, Jr., B.A. 1964, Amherst College	Wyomissing, Pa.
John Herrick Milhorat, B.S. 1960, Cornell University	Pelham, N.Y.
Ruth Dowling Newman, A.B. 1964, Radcliffe College	New York, N.Y.
Allen Abbe Nimetz, A.B. 1964, Cornell University	Washington, D.C.
Leonard Monell Olmsted, Jr., B.S. 1964, Rutgers University	South Orange, N.J.
Joan Louise Page, A.B. 1964, Cornell University	Dayton, Ohio
Steve Richard Pieczenik, A.B. 1964, Cornell University	New York, N.Y.
Ronald Scott Rankin, A.B. 1964, Drew University	Bernardsville, N.J.
Carl Eric Ravin, A.B. 1964, Cornell University	Bethesda, Md.
Paul Eugene Reading, Jr., A.B. 1964, Cornell University	Painesville, Ohio
Robert William Reidy II, A.B. 1964, Dartmouth College	Albuquerque, N.M.
John Harger Roediger, B.S.E.E. 1964, Duke University	Westfield, N.J.
John Gerard Rose, B.S. 1964, Fordham University	Valley Stream, N.Y.
Charles David Semel, B.A. 1964, Drew University	Haskell, N.J.
David Hayden Slepian, A.B. 1964, Cornell University	Highland Park, Ill.
Ray Merrill Thorpe, A.B. 1964, Stanford University	Modesto, Calif.
John Joseph Vecchione, B.S. 1964, Yale University	Sturbridge, Mass.
Robert Scofield Walker, A.B. 1964, Cornell University	Chaplin, Conn.
Jack Waxman, B.S. 1964, City College of New York	Bronx, N.Y.
William Richard White, B.A. 1964, College of the Holy Cross	Bronxville, N.Y.
Bruce George Wilbur, B.S. 1964, Providence College	Scarsdale, N.Y.
John Buckner Winfield, B.A. 1964, Williams College	Fairfax, Va.

John Charles Wolfe, A.B. 1964, Stanford University	Arcadia, Calif.
David Ray Wood, B.S. 1964, University of Utah	Idaho Falls, Idaho
Charles Victor Wylie, B.S. 1964, University of Utah	Salt Lake City, Utah
Robert F. Zager, A.B. 1964, Cornell University	East Patterson, N.J.
Stephen Arnold Zendel, A.B. 1964, New York University	Eastchester, N.Y.

FIRST YEAR

Saul Joseph Ahola, B.A. 1965, Blackburn College	Dayville, Conn.
Daniel Leon Alkon, B.A. 1965, University of Pennsylvania	Philadelphia, Pa.
Vincent Daniel Anku, B.A. 1965, Grinnell College	New York, N.Y.
George Anthony Arangio, A.B. 1965, Cornell University	Allentown, Pa.
Richard Dante Ariola, B.A. 1965, New York University	Brooklyn, N.Y.
Robert McMath Averill, Jr., B.A. 1965, Cornell University	Fort Lauderdale, Fla.
Ford Ballantyne III, B.A. 1965, Lake Forest College	Grosse Pointe, Mich.
Joseph Anthony Belladonna, Jr., B.S. 1965, Fordham University	Brooklyn, N.Y.
George Peter Bloom, B.A. 1965, Cornell University	Brooklyn, N.Y.
Jeffrey Stephen Borer, B.A. 1965, Harvard University	New York, N.Y.
Thomas Walter Buchholtz, B.A. 1965, Grinnell College	Ames, Iowa
Patrick James Cannon, B.S. 1965, St. John's University	Bronx, N.Y.
Phillip Carter Carling, Jr., B.S. 1965, University of Dayton	Fair Haven, N.J.
Barbara Ann Cox, A.B. 1965, Drew University	Boonton, N.J.
Springer Wynne Cox, A.B. 1965, Cornell University	Connellsville, Pa.
William Howard Davidson, B.A. 1965, Portland State College	Milwaukie, Ore.
Robert Henry Digby, Jr., B.A. 1965, Michigan State University	E. Lansing, Mich.
Edmond Joseph Donnellan, Jr., A.B. 1965, Georgetown University	Garden City, N.Y.
Robert Giles Donovan, B.S. 1965, University of Notre Dame	New York, N.Y.
Nicholas Reed Dunnick, B.S. 1965, Purdue University	Goshen, Ind.
Charles Addison Ellsworth, B.A. 1965, Cornell University	Waterville, N.Y.
James Robert Foster, B.A. 1965, Amherst College	New Canaan, Conn.
Richard Bruce Friedman, A.B. 1965, Princeton University	Great Neck, N.Y.
Steven Glenn Gabbe, B.A. 1965, Princeton University	Millburn, N.J.
Kathleen Agnes Gaffney, B.A. 1965, Cornell University	Highland, N.Y.
John Isaac Gallin, B.A. 1965, Amherst College	New York, N.Y.
Arthur Mayer Gerber, B.M.E. 1959, Cooper Union	Brooklyn, N.Y.
Dale Neta Gottdiener, A.B. 1965, Cornell University	Poughkeepsie, N.Y.
Paul Jacob Grant, A.B. 1965, Columbia University	El Paso, Texas
Marc Alan Grinberg, B.A. 1964, Dartmouth College	Pittsburgh, Pa.
George William Gross, Jr., B.A. 1965, Hamilton College	Westfield, N.J.
David Henry Gunderson, B.S. 1965, Wheaton College	Muscatine, Iowa
Richard Jay Haber, A.B. 1965, Columbia University	New York, N.Y.
Nicholas Jackson Hardin, B.A. 1965, Amherst College	Needham, Mass.
Charles DeLisle Hearey, A.B. 1965, Wesleyan University	Oaklyn, N.J.
Douglas W. Hershey, B.A. 1964, Yale	Hershey, Pa.
John Winslow Hirshfeld, Jr., B.A. 1965, Cornell University	Ithaca, N.Y.
Jeffrey Theodore Kessler, B.A. 1965, Wesleyan University	Boston, Mass.
Francis Henry Koch, A.B. 1965, Fordham University	Paterson, N.J.
Neil Kraybill Kochenour, B.M.E. 1964, Cornell University	Lancaster, Pa.
Ernest William Lampe II, A.B. 1962, Brown University	Minneapolis, Minn.
Judith Ann Lebowich, A.B. 1965, Bryn Mawr College	Saratoga Springs, N.Y.
Robert Theodore Leshner, A.B. 1965, Cornell University	Brooklyn, N.Y.
Alan Herbert Lockwood, B.A. 1965, Cornell University	Albany, N.Y.
Frederick Peter Loy, B.A. 1965, Rutgers University	Scotch Plains, N.J.
Kathleen Denise Maher, B.S. 1965, St. John's University	Flushing, N.Y.
John Douglas Mann, B.A. 1965, Amherst College	St. Charles, Ill.
Paul Austin McGee, A.B. 1965, St. Peter's College	Jersey City, N.J.
Michael Benjamin McKee, B.A. 1965, Carelton College	Wichita, Kan.
George William Middleton, B.S. 1965, University of Utah	Salt Lake City, Utah
Robert S. Modlinger, B.A. 1965, Columbia University	Brooklyn, N.Y.
Dudley Thomas Moorhead II, A.B. 1965, Stanford University	San Jose, Calif.
Michael Francis Mulroy II, A.B. 1964, Georgetown University	Boca Raton, Fla.

Richard Talbot Nist, Jr., B.A. 1965, University of Minnesota	Minneapolis, Minn.
James Stanley Ogsbury, B.A. 1965, Denison University	Brewster, N.Y.
Barnard Milton Paladino, A.B. 1965, Cornell University	Mount Pleasant, Pa.
Leighton Brown Parker, Jr., A.B. 1965, Duke University	Manning, S.C.
Grant Van Sieten Parr, A.B. 1965, Wesleyan University	Morristown, N.J.
Kenneth Richard Peele, B.A. 1965, Cornell University	Rock Stream, N.Y.
Stephen Laurence Pelton, A.B. 1965, Houghton College	Alden, N.Y.
Lawrence Richard Poliner, B.S. 1965, University of Notre Dame	Albuquerque, N.M.
George Popel, B.S. 1965, Fordham University	New York, N.Y.
John Albert Rothschild, B.A. 1965, Cornell University	Skokie, Ill.
Elaine Carol Sarkin, B.A. 1965, Cornell University	White Plains, N.Y.
David Louis Schenkar, B.A. 1965, University of Washington	Mercer Island, Wash.
Michael Alan Schwartz, A.B. 1965, Princeton University	New Rochelle, N.Y.
LeRoy Ralph Sharer, Jr., A.B. 1965, Cornell University	Mount Carmel, Pa.
Stephen Richard Shaul, A.B. 1965, Dartmouth College	Fair Lawn, N.J.
Edward Allen Sickles, A.B. 1965, Columbia University	New York, N.Y.
Jack William Simon, B.A. 1965, Amherst College	Deal, N.J.
Robert Steven Singer, B.S. 1965, University of Washington	Seattle, Wash.
Elizabeth Sprague, B.A. 1965, Swarthmore College	Lakewood, Ohio
Clyde Sylvan Straw, B.A. 1965, Queens College	Jamaica, N.Y.
Warren Lee Van Kampen, B.S. 1965, Wheaton College	Wheaton, Ill.
Robert Lynn Warburton, University of Utah	Salt Lake City, Utah
Paul Irving Wassermann, B.A. 1965, Utah State University	Logan, Utah
William W. Weddington, Jr., B.A. 1965, Emory University	Hawkinsville, Ga.
Richard Dearboron Whiting, B.A. 1965, Boston University	Dover, Mass.
Daniel Turk Williams, B.A. 1965, Columbia University	Kew Gardens, N.Y.
Richard William Wilson, A.B. 1965, Ohio Wesleyan University	Scarsdale, N.Y.
Frederick Floyd Wolfe, B.S. 1965, Columbia University	Mt. Carmel, Pa.
George Frederick Wooten, Jr., B.A. 1965, Rice University	Talladega, Ala.
James Warren Wynne, B.S. 1965, St. Peter's College	Passaic, N.J.
Anthony Paul Zavadii III, B.A. 1965, Cornell University	Bethesda, Md.

SUMMARY

Fourth Year	82
Third Year	87
Second Year	82
First Year	84
Total	335

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Donald W.	Surgery	94
Abel, Henrietta E.	Medicine	73
Abel, Robert R.	Medicine	73
Abello, Emilio G., Jr.	Medicine	73
Abelson, Charles	Surgery	94
Abrahams, Irving	Microbiology	76
Abroms, Gene M.	Psychiatry	87
Acosta, Jerry	Surgery	94
Adelson, Edward T.	Psychiatry	87
Adler, Howard	Medicine	73
Advocate, Seymour	Medicine	70
Albrecht, Alberta M.	Sloan-Kettering (Biology)	107
Allen, Fred H.	Pediatrics	81
Allgair, George	Surgery	94
Allgair, Janet	Surgery	94
Almy, Thomas P.	Medicine	69
Alonso, Daniel R.	Pathology	80
Amstutz, Harlan	Surgery	94
Anderson, Arthur F.	Pediatrics (Emeritus)	10
Anderson, Arthur A.	Psychiatry	87
Anderson, Gerald	Obstetrics & Gynecology	78
Anderson, Gerald A.	Psychiatry	87
Anderson, William A.	Medicine	73
Antoville, Anthony A.	Medicine	70
Applebaum, Jacob	Surgery	94
Arboit, Joan M.	Pediatrics	83
Arce, A. Anthony	Psychiatry	87
Archibald, Kenneth C.	Medicine	70
Arcuri, Joseph	Psychiatry	87
Arditi, Lucian I.	Medicine	70
Armistead, George C.	Medicine	71
Armstrong, Donald	Medicine	71
Armstrong, Roderick A.	Psychiatry	87
Arnold, William D.	Surgery	93
Aronson, Jason	Psychiatry	86
Artusio, Joseph F., Jr.	Surgery; Obstetrics & Gynecology	92; 77
Asaph, James W.	Surgery	94
Asch, Thane	Anatomy; Radiology	66; 90
Ascheim, Robert S.	Medicine	73
Ashe, Barbara S.	Pediatrics	82
Ashman, Stuart	Psychiatry	86
Askari, Amir	Pharmacology	83
Atkinson, Sam C.	Medicine	71
Auld, Peter A. Mcf.	Pediatrics	82
Austlid, Olav	Medicine	71
Avnet, Samuel	Surgery	94
Axel, Peter J.	Pediatrics	83
Axelrod, D. Robert	Physiology	85
Bach, Fritz H.	Medicine	73
Bader, Genevieve	Sloan-Kettering (Prev. Med.)	109
Bader, Saul	Anatomy	66
Baer, Ralph A.	Medicine	73
Bahia, Alegria	Surgery	94
Baker, Ralph D.	Psychiatry	87
Balagura, Sulamita	Physiology	85
Balasz, Leslie L.	Surgery	94
Balensweig, Howard D.	Surgery	94
Balis, M. Earl	Sloan-Kettering (Biochemistry)	106

Bang, Nils U.	Medicine	71
Baras, Irving	Surgery	93
Barasch, Kenneth R.	Surgery	93
Barber, Hugh R. K.	Obstetrics & Gynecology	77
Barclay, Ralph K.	Sloan-Kettering (Biochemistry)	106
Barile, Raymond G.	Surgery	94
Barnes, Lloyd T.	Medicine	71
Barnes, William A.	Surgery	92
Barondess, Jeremiah A.	Medicine	69
Barr, David P.	Medicine (Emeritus)	10
Barreto, Armando	Surgery	94
Basile, Neaf K.	Obstetrics & Gynecology	78
Baskin, Alan R.	Medicine	73
Bass, Richard R.	Pediatrics	82
Battah, Emmanuel	Surgery	94
Bauer, Charles H.	Pediatrics	82
Bauer, Goran C. H.	Surgery	92
Baumgartner, Leona	Pediatrics; Public Health	81; 88
Baxter, James E.	Psychiatry	87
Baylor, Curtis H.	Medicine	71
Beaver, William T.	Pharmacology	83
Beck, A. D.	Surgery	94
Becker, Carl G.	Pathology	80
Becker, David V.	Medicine; Radiology	70; 90
Becker, E. Lovell	Medicine	70
Beechwood, Emory C.	Medicine	73
Behrman, Stanley J.	Surgery	93
Beil, Arthur R., Jr.	Surgery	93
Beiser, Morton	Psychiatry	87
Beling, Carl	Obstetrics & Gynecology	77
Bell, Bertrand M.	Medicine	73
Bendich, Aaron	Sloan-Kettering (Biochemistry)	106
Beneventi, Francis A.	Surgery	93
Benjamin, Bry	Medicine	71
Bennett, Dorothea	Anatomy	66
Benua, Richard S.	Medicine	71
Berenberg, Samuel R.	Public Health; Pediatrics	88; 81
Berg, John W.	Sloan-Kettering (Pathology)	108
Bergland, Richard M.	Surgery	93
Bernstein, Alvin	Psychiatry	87
Bernstein, James S.	Medicine	73
Berntsen, Carl A.	Medicine	71
Berrett, Arnold	Radiology	90
Bettigole, Richard E.	Medicine	73
Biedler, June L.	Sloan-Kettering (Biology)	107
Biel, Leonard, Jr.	Surgery	94
Bienenstock, Harry	Medicine	73
Bigelow, Llewellyn B.	Psychiatry	87
Billo, Otto E.	Pediatrics	82
Binford, Robert T.	Medicine	73
Rippart, Charles H.	Obstetrics & Gynecology	78
Birnbaum, Gary	Medicine	73
Birnbaum, Stanley	Obstetrics & Gynecology	77
Blank, Alan M.	Obstetrics & Gynecology	78
Blitz, Marvin B.	Psychiatry	87
Blum, Morton	Medicine	73
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	106
Boddy, Francis A.	Medicine	73
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	68; 77
Booher, Robert J.	Surgery	95
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	106
Boris, Marvin	Pediatrics	82

120 REGISTER OF COLLEGE AND SLOAN-KETTERING STAFFS

Borovac, Dragan	Surgery	94
Bortin, Aaron W.	Medicine	73
Boyan, C. Paul	Surgery	95
Boulpaep, Emile	Physiology	85
Bowden, Lemuel	Surgery	95
Brachfeld, Norman	Medicine	71
Bradford, Michael J.	Medicine	73
Bradley, William H.	Public Health	88
Branchey, Marc M.	Psychiatry	87
Branda, Luis A.	Biochemistry	68
Brander, Jerome H.	Obstetrics & Gynecology	78
Branwood, A. Whitley	Pathology	80
Brasfield, Richard J.	Surgery	95
Braunstein, Paul W.	Surgery	93
Braveman, Warren S.	Medicine	73
Breslow, Esther	Biochemistry	68
Brethwaite, Samuel H., Jr.	Medicine	73
Brewster, Hollister P.	Medicine	73
Brice, Larry J.	Medicine	73
Brice, Mitchell II	Surgery	94
Brilliant, Renee M.	Pediatrics	83
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	77
Brodman, Keeve	Medicine	71
Bronstein, Eugene L.	Radiology	90
Bronzaft, Arline	Psychiatry	87
Brooks, Dana C.	Anatomy	66
Brown, Donald	Surgery	94
Brown, George B.	Sloan-Kettering (Biochemistry)	106
Brown, H. Oliver, Jr.	Medicine	73
Brown, James W.	Psychiatry	87
Brown, John Lyman	Medicine	71
Brown, Shelley M.	Medicine	73
Brown, Veronica	Medicine	71
Browne, Michael	Surgery	94
Browne-Mayers, Albert	Psychiatry	87
Brunschwig, Alexander	Surgery	95
Brush, A. Louise	Psychiatry	87
Bruton, William J.	Surgery	94
Buchanan, J. Robert	Medicine	71
Buchanan, Mary C.	Pediatrics	82
Buchman, Myron I.	Obstetrics & Gynecology	77
Burbank, Bernerd H.	Medicine	73
Burchenal, Joseph H.	Medicine	69
Burdick, Robert E.	Medicine	73
Burkhardt, Edward A.	Medicine	71
Burnett, Harry W.	Radiology	90
Burnham, Bruce	Surgery	94
Burstein, Charles	Surgery	92
Butkiewicz, Alexander	Radiology	91
Buydens, Laure	Psychiatry	87
Cahan, William G.	Surgery	95
Callahan, Edward W.	Medicine	73
Callahan, Justin T.	Obstetrics & Gynecology	77
Callipari, Frank B.	Surgery	95
Camarda, Anthony	Surgery	94
Cameron, Donald J.	Medicine	71
Camp, Walter A.	Medicine	73
Campbell, Rolla D., Jr.	Surgery	92
Canale, Virginia C.	Pediatrics	83
Canter, Norman M.	Surgery	95
Caplan, Robert	Surgery	94
Cappuccino, James G.	Sloan-Kettering (Biology)	107

Carey, Thomas I.	Surgery	94
Carlson, Arthur S.	Pathology	80
Carlson, Eric T.	Psychiatry	86
Carpenter, Walter T.	Pediatrics	82
Carr, Henry A.	Medicine	70
Carre, Aurelien	Surgery	94
Carson, Robert S.	Psychiatry	87
Carver, Susan T.	Medicine	71
Casat, Charles	Psychiatry	87
Cash, William D.	Biochemistry	68
Cassell, Eric	Medicine; Public Health	73; 89
Caterinicchio, Benedict S.	Pediatrics	82
Catino, Donald	Pathology	80
Catlin, Daniel	Surgery	95
Cattell, McKeen	Pharmacology (Emeritus)	10
Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	106
Cavero, Rafael S.	Surgery	94
Celian, Charles I.	Psychiatry	87
Cerruli, Remo	Psychiatry	87
Champion, Phillips	Medicine	73
Champion, William	Surgery	94
Chan, Wah-Yip	Biochemistry	68
Charash, Leon J.	Pediatrics	82
Chaves, Aaron D.	Medicine; Public Health	71; 89
Christenson, William N.	Medicine	70
Chu, Florence Chien-Hwa	Radiology	90
Chua, Mary	Surgery	94
Chynn, Kuo York	Radiology	90
Ciofalo, Frank R.	Pharmacology	84
Cipollaro, Vincent	Medicine	73
Cipollaro, Anthony	Medicine (Dermatology)	69
Claremont, Hugh E.	Medicine	73
Clark, Donald G. C.	Surgery	95
Clark, Melva A.	Medicine	73
Clarke, Robert L.	Surgery	94
Clarkson, Bayard D.	Medicine	71
Clayson, David M.	Psychiatry	87
Clifford, George O.	Medicine	70
Clifton, Eugene E.	Surgery	92; 95
Coats, Edward C.	Surgery	94
Cobb, John R.	Surgery (Orthopedics)	92
Cobb, Katharine	Pediatrics	82
Cobbs, C. Glenn	Medicine	73
Coburn, Richard	Surgery	94
Codington, John F.	Sloan-Kettering (Biochemistry)	106
Cohen, Burton D.	Medicine	73
Cohen, Eugene J.	Medicine	70
Cole, John T.	Obstetrics & Gynecology	77
Coleman, John W.	Surgery	94
Collier, Robert	Medicine	73
Colwell, Clifford	Surgery	94
Comancho, Alvaro	Medicine	73
Connolly, C. Stephen	Medicine	73
Constantine, Elizabeth F.	Surgery	94
Conway, Herbert	Surgery	92
Coombs, Francis P.	Medicine	73
Cooper, Howard N.	Psychiatry	87
Cooper, William	Surgery (Orthopedics)	92
Cooper, William A.	Surgery	92
Corey, Karin R.	Sloan-Kettering (Biophysics)	108
Cormia, Frank E.	Medicine (Dermatology)	69
Cornell, George N.	Surgery	93

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Cornwall, Claude	Pathology	80
Cortese, Armand	Surgery	94
Cox, Denton S.	Medicine	71
Craig, George	Surgery	94
Cramer, Jean Abel	Medicine	73
Craver, Lloyd F.	Medicine (Emeritus)	10
Crawford, David D., Jr.	Obstetrics & Gynecology	77
Crill, Wayne E.	Medicine	73
Crissey, Eleanor	Psychiatry	87
Cudmore, Ruth	Pediatrics	82
Culpert, Charles N.	Obstetrics & Gynecology	78
Cummins, F. Mitchell	Radiology	90
Cunningham, Myles P.	Surgery	95
Cupiaoli, Richard A.	Medicine	73
Curtis, Gabriel	Surgery	94
Dalldorf, Gilbert	Sloan-Kettering (Pathology)	108
Dangelmajer, Rudolph C.	Surgery	94
Daniels, Farrington, Jr.	Medicine (Dermatology)	70
Daniels, Helen E.	Psychiatry	86
Danley, Robert A.	Psychiatry	87
Dann, Margaret	Pediatrics	81
Dargeon, Harold W. K.	Pediatrics (Emeritus)	10
Darrigan, Thomas M.	Surgery	94
Davidson, Richard A.	Surgery	94
Davis, Carter	Medicine	73
Davis, E. William	Obstetrics & Gynecology	77
Davis, Jeff	Medicine	73
Davis, Marion	Medicine	71
Davis, Milton S.	Medicine	71
Davis, Robert V., Jr.	Surgery	94
De Alvarado, Lois	Psychiatry	87
Deans, Robert D.	Surgery	94
Deddish, Michael R.	Surgery	95
Deep, Anthony	Obstetrics & Gynecology	78
De Furia, Frank	Medicine	73
De Gara, Paul F.	Medicine; Pediatrics	71; 82
De George, Frances V.	Pediatrics	82
De Harven, Etienne	Sloan-Kettering (Biology)	107
Deitrick, John E.	Medicine; Dean	69
Delaney, John R.	Psychiatry	87
De Mayo, Alan P.	Pediatrics	82
De Mura, Hirochi	Medicine	73
De Mura, Reiko	Medicine	73
De Nesnera, Peter	Medicine	73
Denker, Peter G.	Medicine (Neurology)	71
Dennen, Edward H.	Obstetrics & Gynecology (Emeritus)	10
De Palo, Angelo J.	Surgery	95
Deschner, Eleanor	Medicine; Radiology	73; 91
Desser, Edgar J.	Medicine	73
Diacumakos, Elaine G.	Sloan-Kettering (Prev. Med.)	109
Diamond, Monroe T.	Medicine	71
Dickerman, Robert W.	Microbiology	76
Diehl, Carolyn H.	Medicine	73
Diethelm, Arnold G.	Surgery	93
Diethelm, Oskar	Psychiatry (Emeritus)	10
Di Leo, Joseph H.	Pediatrics	82
Dillon, Thomas F.	Obstetrics & Gynecology	77
Di Lorenzo, James D.	Surgery	95
Dineen, Peter	Surgery	92
Doherty, John H.	Surgery	93
Dollinger, Malin R.	Medicine	73
Doughtery, John W.	Medicine	70

Dougherty, Joseph C.	Medicine	73
Douglas, R. Gordon	Obstetrics & Gynecology (Emeritus)	10
Doyle, Thomas L., Jr.	Psychiatry	87
Dozier, David F.	Medicine	73
Drakontides, Anna	Anatomy	66
Draper, John W.	Surgery (Urology)	92
Drew, J. Edwin	Surgery	93
Duley, Wade	Surgery	94
Dunbar, Charles R.	Surgery	94
Dunbar, Howard S.	Surgery	92
Dunkell, Samuel V.	Psychiatry	87
Dunlap, Edward A.	Surgery (Ophthalmology)	92
Dunn, Allen R.	Surgery	93
Dunning, Henry S.	Medicine (Neurology)	69
Durso, John	Obstetrics & Gynecology	78
Du Vigneaud, Vincent	Biochemistry	68
Dworetzky, Murray	Medicine	70
Dye, Robert E.	Medicine	73
Eanes, Edward D.	Surgery	93
Easton, J. Donald	Medicine	73
Eckardt, Robert E.	Medicine	73
Eckel, John H.	Surgery	92
Edwards, Dayton J.	Physiology (Emeritus)	10
Egan, George F.	Surgery	92
Eggleston, Cary	Medicine (Emeritus)	10
Ego-Auguire, Ernesto	Surgery	95
Ehlers, Kathryn H.	Pediatrics	82
Ehrlich, Alvin N.	Medicine	73
Eichenholtz, Sidney	Surgery	93
Eilers, Elizabeth A.	Medicine	73
Eisenberg, Howard	Surgery	94
Eisenmenger, William	Medicine	71
Ejrup, Borje E. V.	Medicine	70
Engle, Mary Allen	Pediatrics	82
Engle, Ralph L., Jr.	Medicine	70
Epp, Edward R.	Sloan-Kettering (Biophysics)	107
Epstein, Nathan	Pediatrics	82
Erdman, Frederick	Radiology	91
Erdmann, Albert J., Jr.	Medicine	70
Erlandson, Marion E.	Pediatrics	82
Erlanger, Herbert L.	Surgery	93
Erle, Henry R.	Medicine	71
Eryol, Azak S.	Pathology	80
Esakof, Ernest R.	Medicine	73
Escher, George C.	Medicine	71
Eskes, Philip W. H.	Pediatrics	82
Eskesen, Ralph A.	Medicine	73
Essner, Edward S.	Sloan-Kettering (Biology)	107
Ettinger, Edwin	Medicine	73
Evans, John A.	Radiology	90
Eyster, M. Elaine	Medicine	73
Fadden, Francis J.	Surgery	94
Fahey, Thomas	Medicine	73
Fales, Catherine H.	Psychiatry	87
Faragalla, Farouk F.	Psychiatry	86
Farnsworth, Peter B.	Pediatrics	83
Farr, Hollon	Surgery	93
Farrow, Joseph H.	Surgery	95
Fear, Robert	Obstetrics & Gynecology	78
Feder, Aaron	Medicine	69
Feinman, Lawrence	Medicine	73
Feldmann, Floyd M.	Public Health	89

Fell, Colin	Physiology	85
Ferguson, G. Renee	Psychiatry	87
Ferrier, Barbara M.	Biochemistry	68
Fessenden, Willard B.	Medicine	73
Figueiredo, Jose F.	Medicine	73
Finkbeiner, John A.	Medicine	71
Finkle, Theodore H.	Psychiatry	87
Finn, James	Surgery	94
Finn, William F.	Obstetrics & Gynecology	77
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Total	1256

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